Cassette Car Radio 22DC962/62B

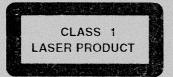


For repair instructions of the CD-Player see Service Manual CMX-200 Nr. 4822 725 24151 For repair instructions of the cassette-deck see Service Manual of SCA 2.5 Nr. 4822 725 23505

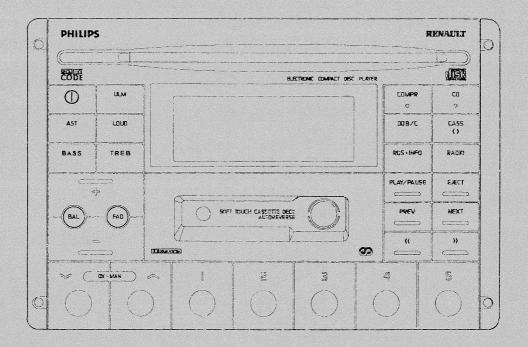
4 10 00,200 10 113 113 15



12 V → III







4822 725 24322

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Technical data:

Radio

FM 87.5 - 108 MHz , grid: 100KHz search, 50KHz manual MW 531 - 1611 KHz, grid: 9 KHz search, 1 KHz manual LW 144 - 288 KHz, grid. 1 KHz search, 1 KHz manual

IF AM 10.7 MHz IF FM 10.7 MHz

Cassette

Deck SCA2.5 Soft Autoreverse

2x2 tracks

Wow and Flutter < 0.3%

CD (DC982)

See specification of CD mechanism CMX200

Amplifier

Output power at D = 10%: 4 X 16W at 14.4V supply voltage

Equalizer +10/-10dB ± 2dB

Loudness 63Hz: 6dB -1/+2dB

1KHz: 0.5dB +2.5dB

10KHz: 4dB -2/+1dB

USE TOGETHER WITH REMOTE DISPLAY 22AP092/62T

ESD

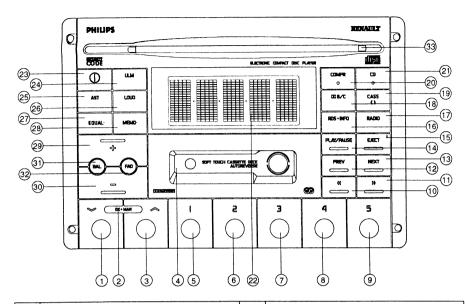


WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

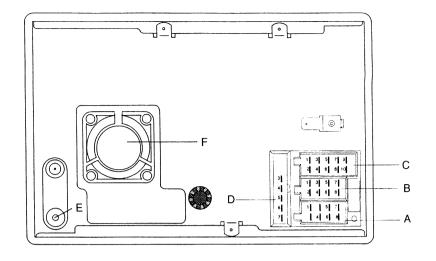
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

22DC962/62B



1	SEARCH DOWN	19	CASSETTE REVERSE
2	DX - MAN	20	COMPRESSION
3	SEARCH UP	21	CD MODE SELECTION
4	CASSETTE APERTURE + FLAP	22	DISPLAY
5 to 9	PRESETS	23	ON / OFF
10	FAST REWIND	24	BAND SELECTION
11	FAST FORWARD	25	AUTOSTORE
12	PREVIOUS	26	LOUDNESS
13	NEXT	27	EQUALIZER SELECTION
14	PLAY / PAUSE	28	MEMORISATION EQUALIZER
15	EJECT	29	VOLUME +
16	RDS . INFO	30	VOLUME -
17	RADIO MODE SELECTION	31	BALANCE SELECTION
18	DOLBY B - C	32	FADER SELECTION
		33	CD APERTURE / CD IN PLUG

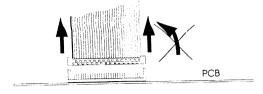
22DC962/62B 22DC982/62B



A1	Head phone box status		СЗ	Mass	
A2	Lighting		C4	Screening mass	
АЗ	Speach synthesis	<i>-</i>	C5	٦	r c ROL
A4	Permanent supply	TOR A	C6		SON
A5	Aut aerial	CONNECTOR A	C7	Remote control	CONNECTOR C REMOTE CONTROL
A6	Controlled illumination	CONNECTOR A POWER SUPPLY	С8	Hemote control	CO
Α7	Supply	_	C9		
A8	Mass		C10		
B1	Rear right +		D3	Screening mass	
B2	Rear right -		D4	Mass	OR D
ВЗ	Front right +	B RS	D5	Interruption	CONNECTOR D REMOTE DISPLAY
B4	Front right -	TOR	D6	I ² C clock	NNO
B5	Front left +	CONNECTOR B LOUDSPEAKERS	D7	l ² C data	0 38
B6	Front left -	S 5	E	Aerial plug	
В7	Rear left +			Actial plug	
В8	Rear left -		F	Fan assy	

Servicing hints

Removing connectors



Fan test:

Pressing simultaneously DOLBY and LOUDNESS makes the fan running for 1 minute.

Repair

Display blinking three times when the set is switched on indicates a CD problem. Display blinking seven times when the set is switched on indicates a cassette problem.

Make sure that you are using remote display 22AP092/62<u>T</u> for testing the set after repair. If not,some features cannot be tested.

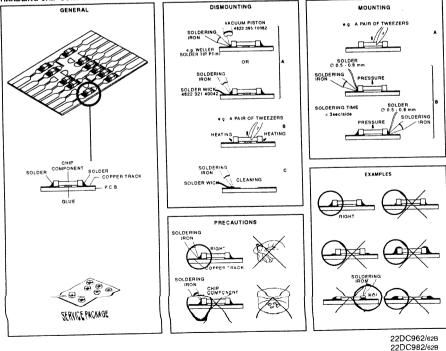
Be carefull not to wedge the wires of the fan in between the chassis and the PCB when remounting the micro PCB.

Be carefull, when remounting the front plate, that the LED's are in good position.

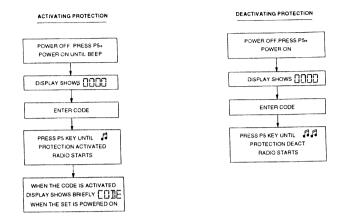
Do not forget to solder the mass between the chassis and the radio PCB when remounting it.

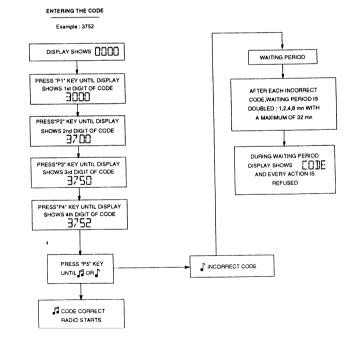
If the regulator item 4901 is to be changed, you must also check the 10Ω resistor item 3376.

HANDLING CHIP COMPONENTS



SECURITY CODE





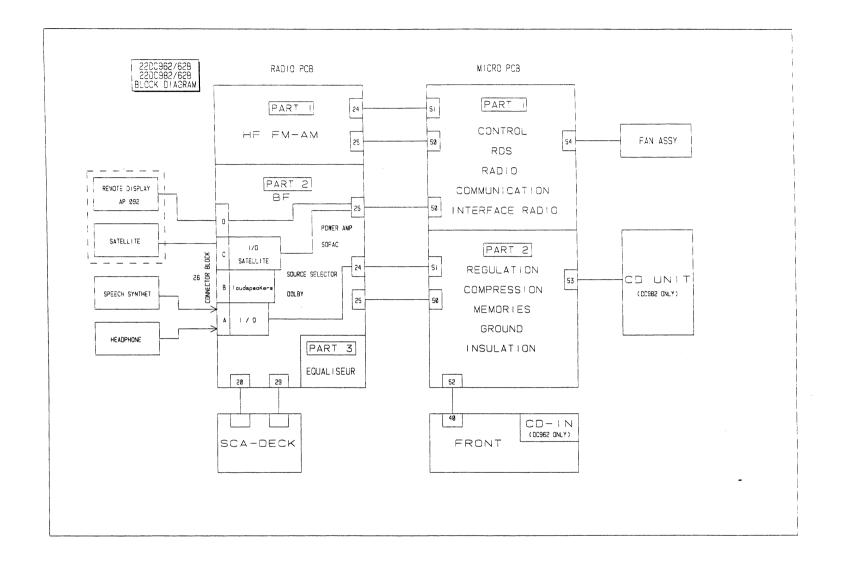
Check	sĸ	⊗ →	\Diamond		Setting of controls	0 0	···
Demodulated		93 MHz 1 mV Δf=22.5 KHz f mod = 1 KHz				1 200 mV ± 1 dB	
FM levels	FM	93 MHz 1 mV Δf = 6.75 KHz f mod = 19 KHz	B			1 50 mV ± 1 dB	
		93 MHz 1 mV Δf = 3.75 KHz f mod = 57 KHz				1 20 mV ± 1 dB	
Demodulated AM level	MW	1053 KHz 1 mV 1 KHz, 30% AM	(A)			250 mV ≤ (2) ≤ 500 mV	
VC FM	FM		B	87.5 MHz	:	3 > 1.0 V 3 < 6.5 V	
	LW		Â	144 KHz		<a>4 > 0.8 ∨	
VC AM	MW			1611 KHz	2	<4> < 6.5 V	
FM limiting Sensivity	FM	93 MHz 15 μV Δf=22.5 KHz f mod = 1 KHz	(B)			5 1.6V DC ± 0.1 V	
Oscillator	FM		(B)	98 MHz		√7 > 20 mV	
voltage	AM		(A)	990 KHz		8 > 30 mV	

Adjustment	sĸ				\emptyset	0 0
Quad detector	FM	93 MHz 40 μV	B	P2 93 MHz	5170	DC between 11 and 15 of 7150 ≤ 200 mV
FM limiting sensivity	FM	93 MHz 15μV Δf = 22.5 KHz f mod = 1 KHz	B	P2 93 MHz	3155	5 1.6 V DC ± 0.1 V
Sensivity search AM	MW	990 KHz 70µV unmodulated	(A)	P1 990 KHz	3175	9 1.75 V DC ± 0.1V

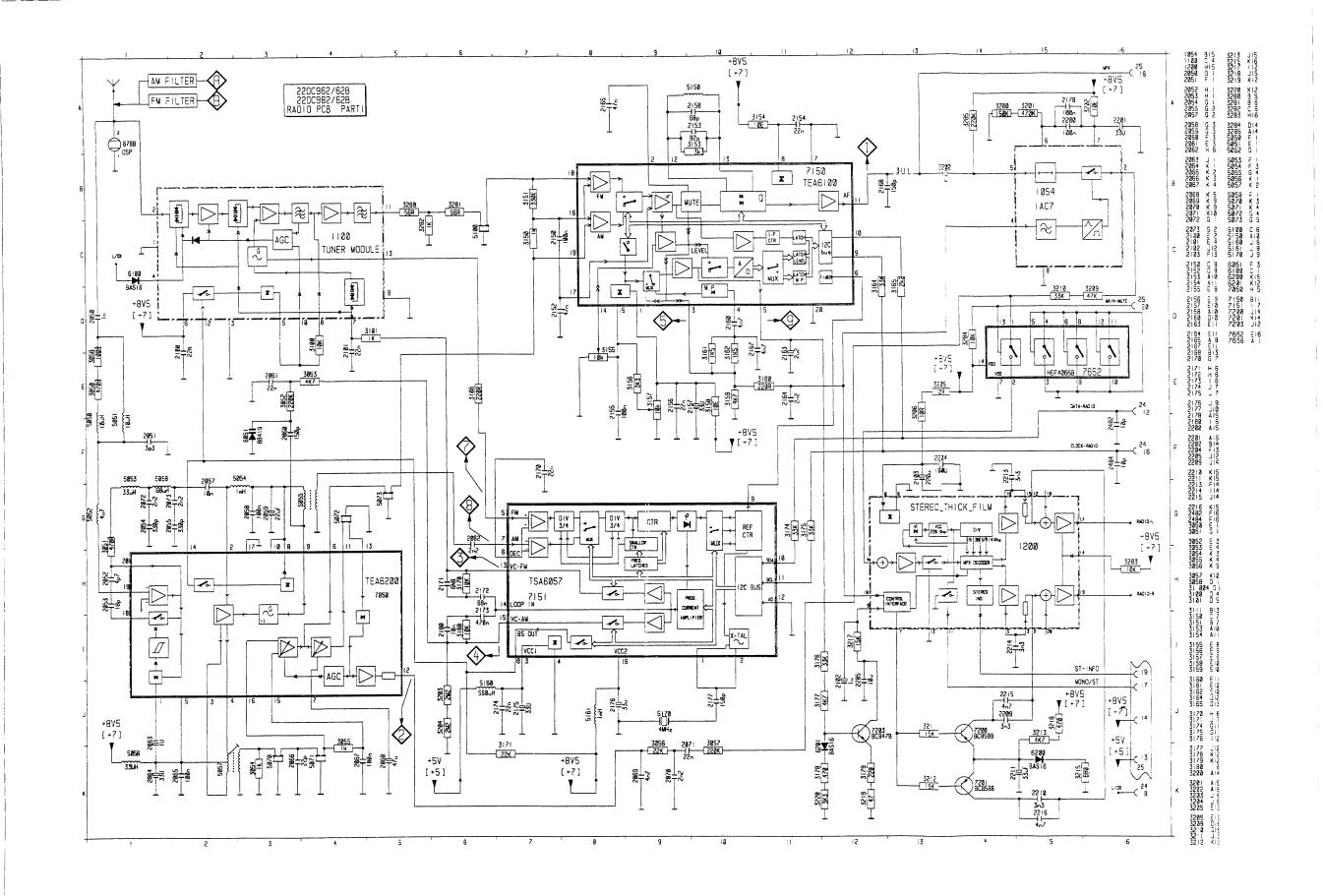
	Technician's remarks		
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DC VOLTAGES

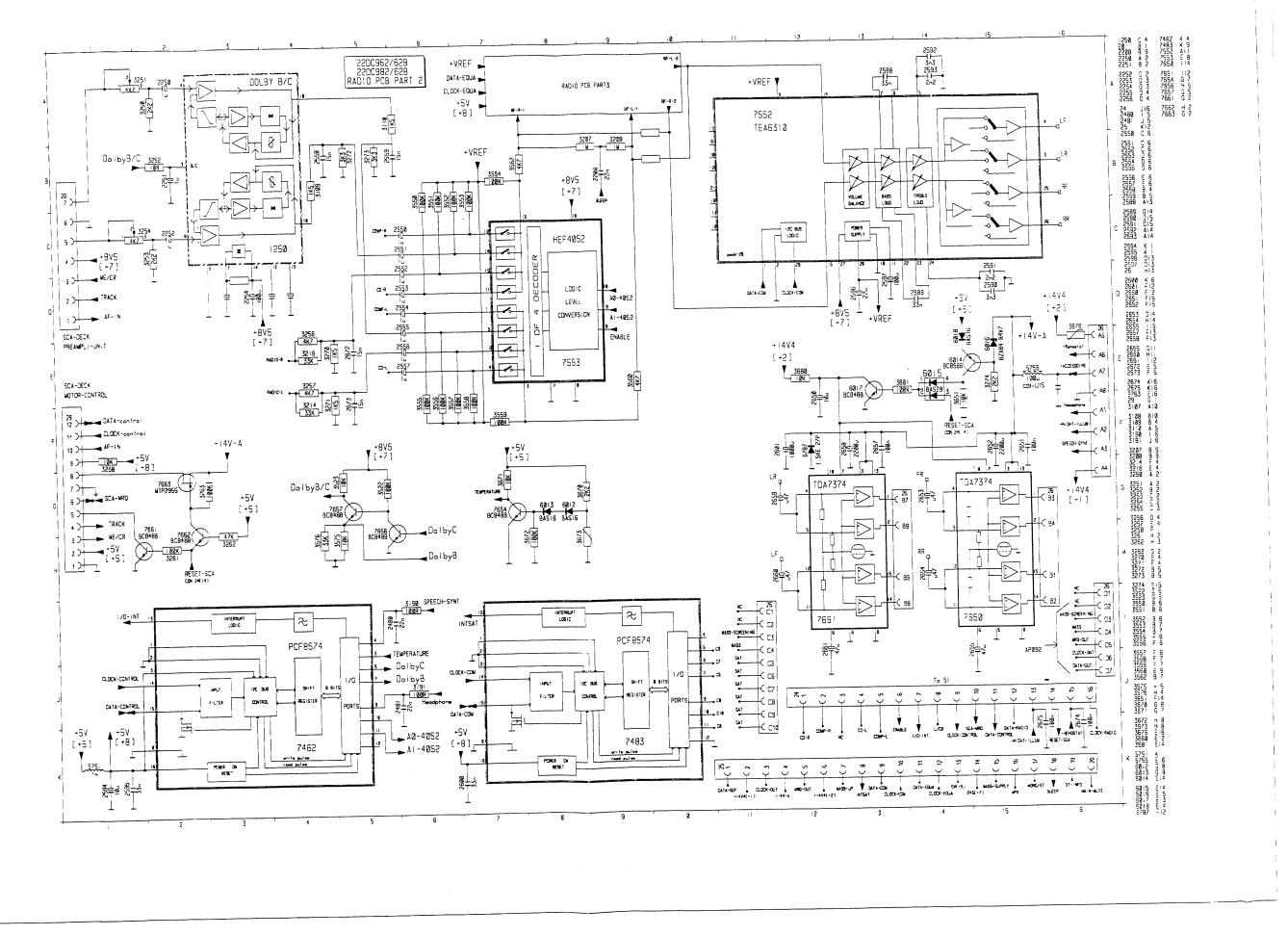
1054 IAC7 THIFI		7151 TSA6057	
2 = 3.3 VV	5 = 5.0 V 6 = 7.9 V 7 = 8.3 V	1 = 4 MHz 2 = 4 MHz 3 = 5.0 V	9 = 40 KHz 10 = 5.0 V SDA 11 = 5.0 V SCL
4 = 4.3 V	8 = GND	4 = GND 5 = 2.0 V 6 = 2.0 V 7 = 2.0 V	12 = GND 13 = 1.3 V - 5.7 V FM 14 = 2.1 V 15 = 1.9 V - 3.4 V AM
1100 TUNER MODULE		8 = 0.2 V FM / 8.5 V AM	16 = 8.4 V
1 = GND 2 = 0.0 V	8 = 1.6 V 9 = GND		
3 = GND	10 = 1.8 V	7552 TEA6310	
4 = 0.0 V 5 = 1.8 V FM / 0.0 V AM	11 = 0.0 V 12 = 8.5 V AM / 0.2 V FM	1 = 5.1 V	15 = 4.3 V
6 = 8.5 V	13 = 1.8 V	2 = GND 3 = 4.3 V	16 = N.C. 17 = N.C.
7 = 1.3 V - 5.7 V		4 = 4.3 V 5 = 4.3 V	18 = GND 19 = N.C.
1200 STEREO THIFI		6 = 4.3 V	20 = 4.3 V
1 = 0.6 V St / 5.0 V Mono	11 = 0.0 V FM / 4.7 V FM	7 = 4.3 V 8 = N.C.	21 = N.C. 22 = 4.3 V
2 = 3.6 V 3 = 3.6 V	12 = 3.6 V 13 = GND	9 = 4.3 V	23 = 4.3 V
4 = 3.3 V	14 = 8.5 V	10 = N.C. 11 = 8.5 V	24 = 4.3 V 25 = 4.3 V
5 = 3.6 V 6 = GND	15 = 3.5 V 16 = 3.5 V	12 = N.C. 13 = N.C.	26 = 4.3 V 27 = 8.5 V
7 = 1.2 V FM / 0.7 VAM 8 = 8.1 V	17 = 3.6 V 18 = N.C.	14 = 4.3 V	28 = 5.1 V
9 = 5.5 V	19 =3.6 V		
10 = 5.0 V	20 = N.C.	7553 HEF 4052B	
1250 DOLBY B/C THIF!		1 = 4.2 V 2 = 4.3 V	9 = 5.1 V 10 = 0.0 V
1 = N.C.	10 = 4.3 V	3 = 4.3 V	11 = 4.3 V
2 = N.C. 3 = 6.0 V DBB / 8.5 V DB	C 12 = N.C.	4 = 4.2 V 5 = 4.2 V	12 = 4.3 V 13 = 4.3 V
4 = 4.3 V 5 = GND	13 = 4.3 V 14 = 8.4 V	6 = 0.0 V / 5.0 V MUTE	14 = 4.3 V 15 = 4.3 V
6 = 4.3 V	15 = 4.3 V	7 = GND 8 = GND	16 = 4.5 V 16 = 8.5 V
7 = 8.5 V 8 = N.C.	16 = 4.3 V		
9 = N.C.	18 = 4.3 V	7650/7651 TDA7374	
7050 TEA6200		1 = 6.9 V	9 = GND 10 = NC
1 = 6.0 V AM	11 = 6.7 V AM	2 = 6.9 V 3 = 14.0 V	11 =0.7 V
2 = 4.1 V AM 3 = 8.5 V AM	12 = 2.9 V AM 13 = 5.0 V AM	4 = 0.7 V 5 = 0.7 V	12 =0.7 V 13 = 14.0 V
4 = 8.5 V AM	14 = 8.5 V AM / 0.2 V FM	6 = 0.7 V	14 = 6.9 V
5 = 8.5 V AM 6 = 7.3 V AM	15 = 4.7 V AM 16 = 4.7 V AM	7 = 9.4 V 8 =GND	15 = 6.9 V
7 = 1.4 V AM 8 = 4.1 V AM	17 = GND 18 = 4.9 V AM		
9 = 4.1 V AM	19 = 0.7 V AM 20 = 5.0 V AM	7652 HEF4066	
10 = 4.1 V AM	20 = 5.0 V AM	1 = 3.3 V	8 = GND
		2 = 3.2 V 3 = GND	9 = GND 10 = GND
T. CO TE 14.00		4 = GND	11 = GND
7150 TEA6100 1 = 8.2 V	11 = 4.6 V	5 = GND 6 = GND	12 = GND 13 = 8.5 V / 0.0 V MUTE
2 = 0.8 V	12 = 4.6 V	7 = GND	14 = 8.5 V
3 = 4.4 V 4 = 0.0 V	13 = 4.6 V 14 = 2.6 V		
5 = 0.0 V	15 = 4.3 V		
6 = 40 KHz 7 = GND	16 = 3.0 V 17 = 3.0 V		
8 = 8.4 V 9 = 5.0 V	18 = 3.0 V 19 = 3.0 V		
10 = 5.0 V	20 = GND		



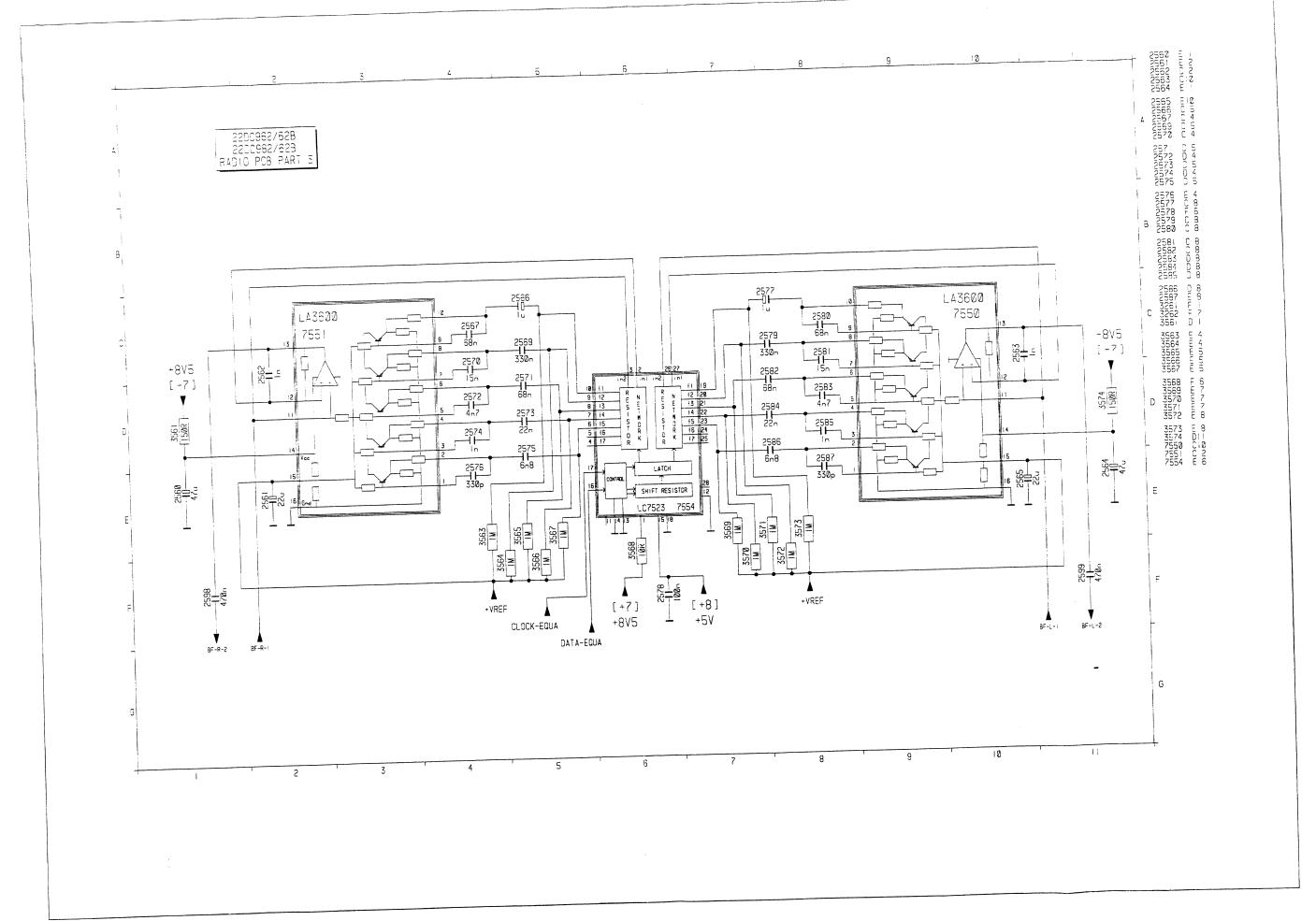
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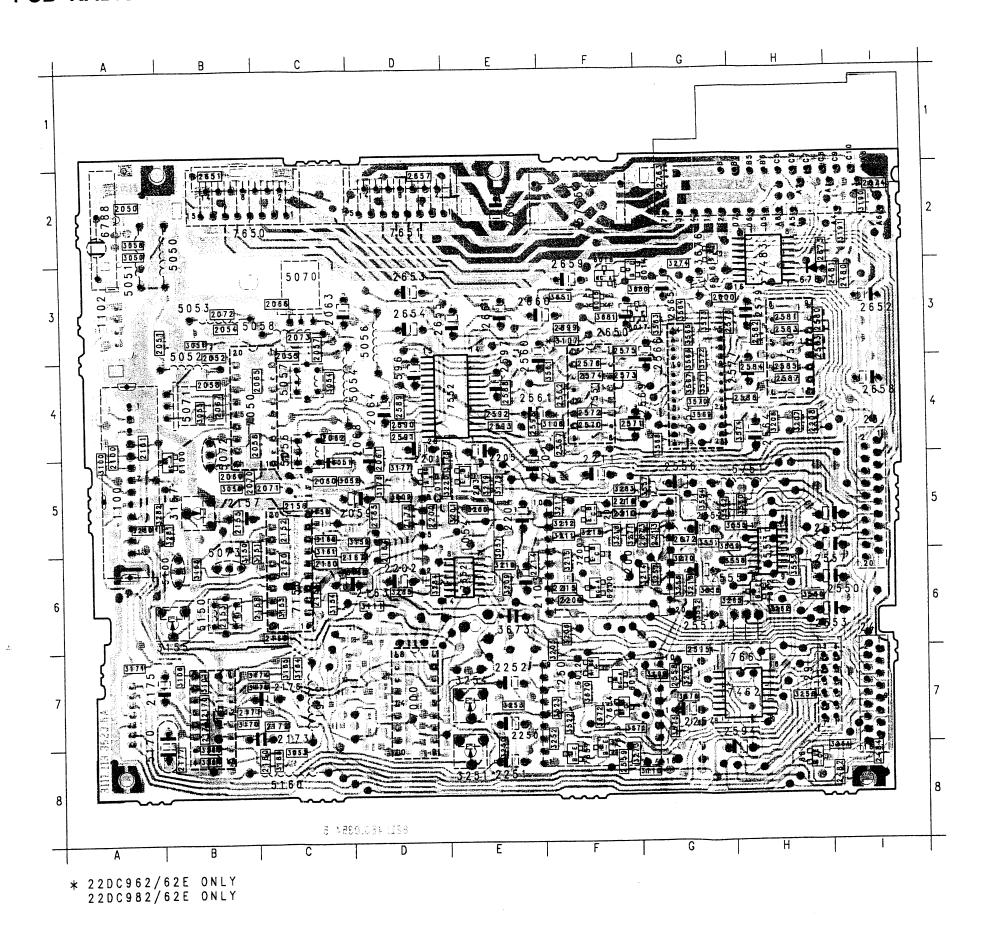


12



13a

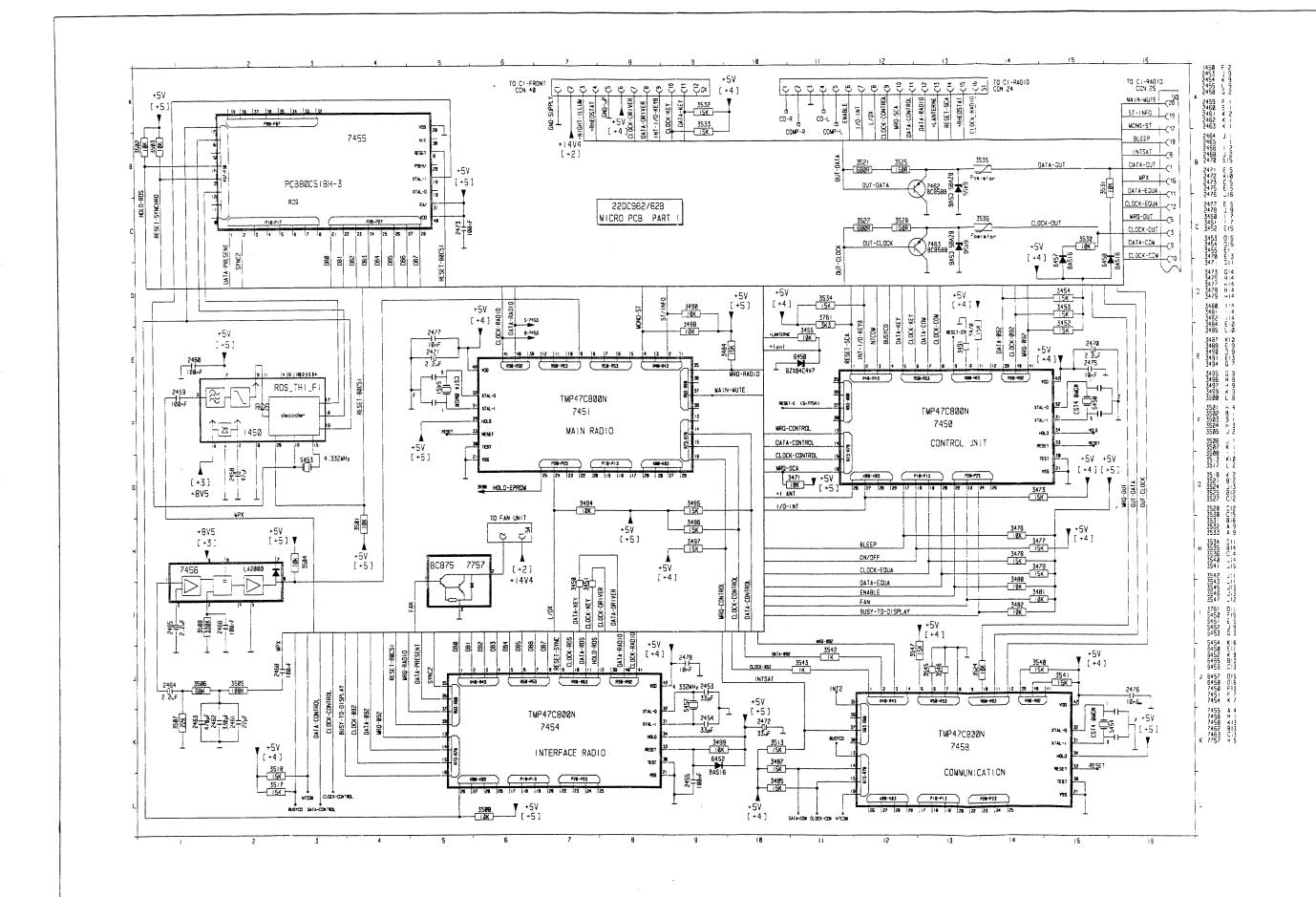


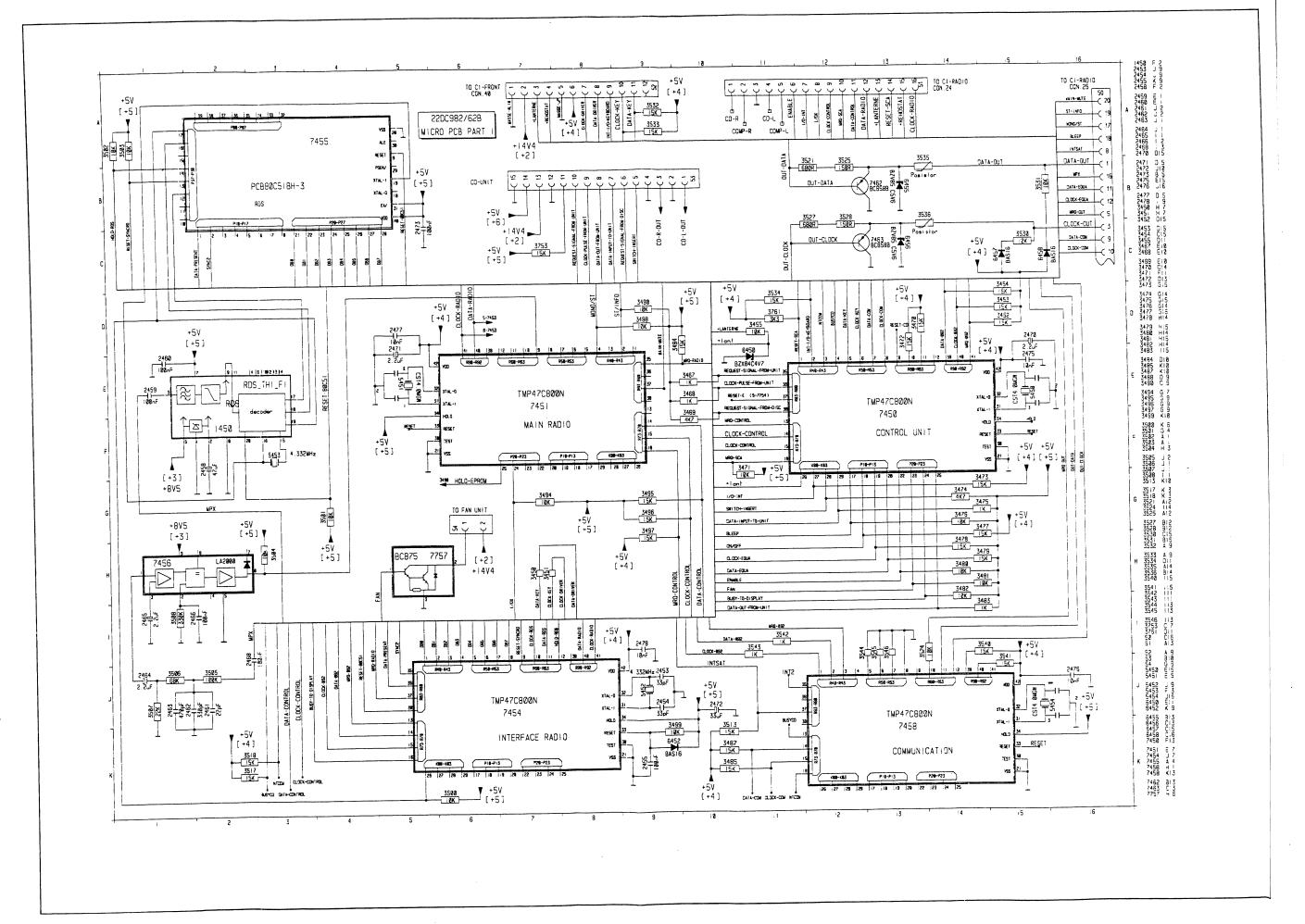


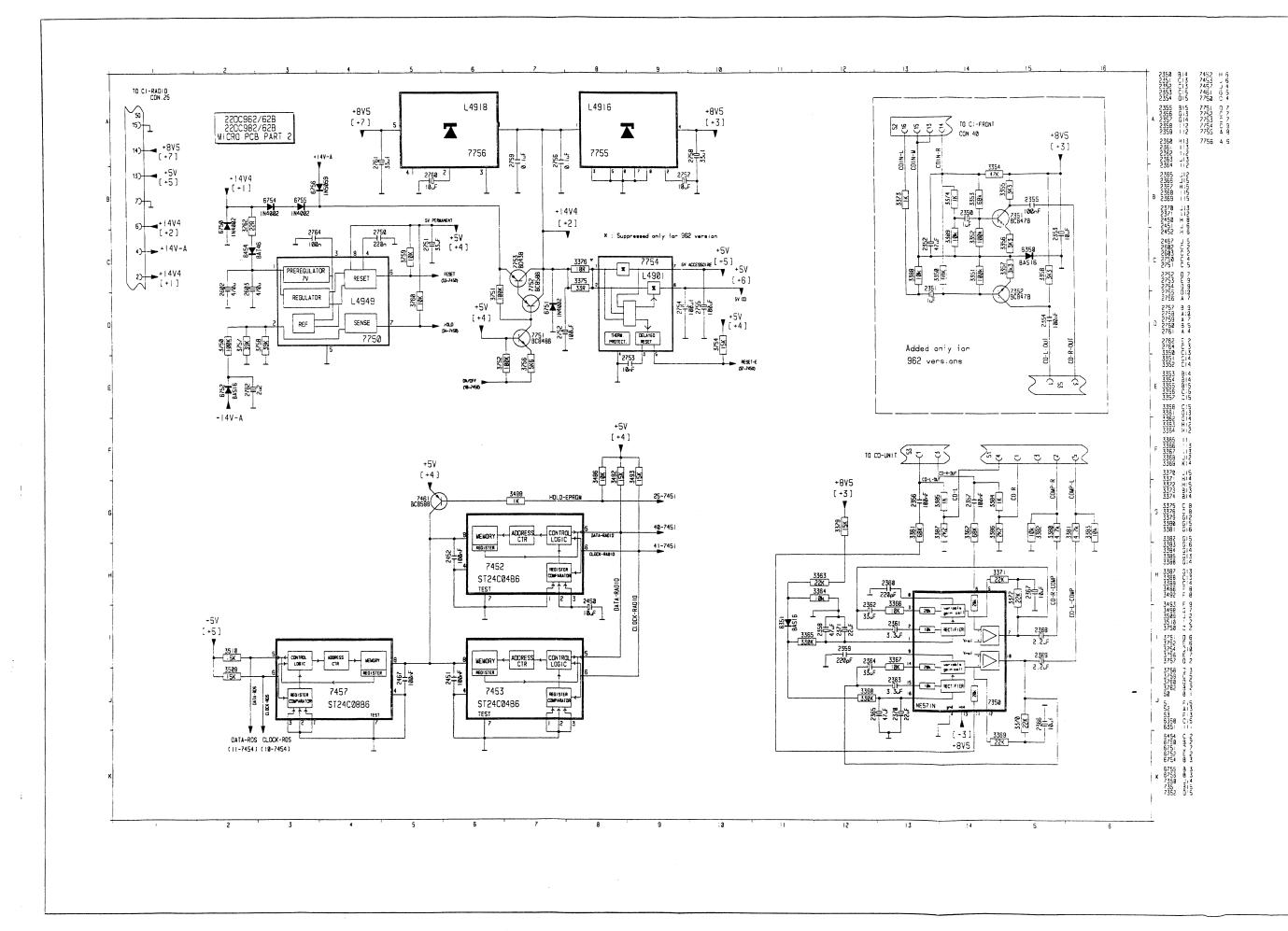
5E 5A 3A 6F 7F	2569 2570 2571 2572 2573	4G 4F 4F 4F 4F	3204 3205 3206 3207 3208	8B 7F 6F 4H 4H	5755 6012 6013 6014 6015	2F 7F 7F 3G 3F
2A 3B 3B 4B 3B	2574 2575 2576 2577 2578	4F 3F 4F 4H 3H	3209 3210 3211 3212 3213	6E 6E 5F 5F 5F	6016 6017 6018 6051 6100	3G 3G 2F 5C 5B
3C 3C 4C 5D 5C	2579 2580 2581 2582 2583	3H 3H 3H 3H 3H	3214 3215 3216 3217 3218	6G 6F 6G 5F 5F	6200 6201 6787 6788 7000	6F 5D 3H 2A 7D
5D 4C 3C 4D 4C	2584 2585 2586 2587 2588	4H 4H 4H 4H 4E	3219 3220 3250 3251 3252	5E 5E 8E 7F	7050 7150 7151 7200 7201	4B 6C 7B 6F 5F
3C 4B 4D 5B 5B	2589 2590 2591 2592 2593	4D 4D 4D 4E 4E	3253 3254 3256 3257 3258	7E 7E 6G 6G 7H	7203 7462 7483 7550 7551	5E 7H 3H 3H 4F
5C 3B 3C 4A 4A	2594 2595 2596 2597 2598	7H 7G 4D 3E 4E	3261 3262 3263 3270 3271	81 6H 6G 5F	7552 7553 7554 7650 7651	4E 6H 4G 2C 2D
5F 6C 5C 6B	2599 2600 2601 2650 2651	3F 3G 2E 3F 2B	3272 3273 3274 3280 3281	7G 8F 3G 5A 5B	7652 7654 7656 7657 7661	6E 7F 7F 8F 8H
6C 5B 5C 5B 6C	2652 2653 2654 2655 2657	31 3D 3D 3D 2D	3282 3283 3284 3285 3522	5B 5F 6D 6D 7F	7662 7663	6H 7H
6C 6D 5D 5D 6D	2658 2659 2660 2661 2672	41 3F 3E 3E 5G	3523 3550 3551 3552 3553	7F 6H 5G 6G 6H		
6C 7B 7B 7C 7C	2673 2674 2675 2763 3050	21 21 2G 2A	3555 3556 3557 3558	5H 6G 5G 6H		
7A 7C 8B	3051 3052 3053 3054 3055	3B 5D 8C 4C 4B	3559 3560 3561 3562 3563	5H 4F 5G 3G		
5D 5D 6D	3056 3057 3058 3100 3101	5B 5E 2A 5A 7B	3564 3565 3566 3567 3568	3G 3G 4G 4G 4G		
4H 6F 5F	3106 3107 3108 3109 3110	7B 3F 4F 7G 8G	3570 3571 3572	4G 4G 4G		
6E 6F 6F	3111 3150 3151 3153 3154	6D 5B 5C 6C 6C	3575 3576 3651	7G 7G 3F		
2 7E 4 7G 0 3I	3158	5C	3673 3676	6E 2G		
4 81 0 61 1 60	3161 3162 3164	5C 5C	5050 5051 5052	2 B 3 A 2 3 B		
4 51 5 60 6 50	3171 3174 3 3175	7A 7C 7C	5056 5056 5057	5 4C 5 3C 7 4C	;)	
9 8F 0 3E 1 4E	3178 3179 3180	5 5E 9 5E 9 8C	507 5072 5073	1 4E 2 4E 3 5E	} }	
4 41 5 30 6 30	3200 3 3200 3 3200) 5E 1 5E 2 5E	516 516 517	0 80 1 70 0 74		
	5367 23388B CCCDC DCCDC CBDBB CBCAA FECCB CBCBC CDDDD CBBCC CBDDD CBBCC BCBCBC CBDDD CBBCC BCBCBC CBCBC CBCCBC CBCBC CBCBC CBCBC CBCCBC	5ĀA 2570 2571 2572 2573 436 2575 336 2575 348 2576 38 2576 38 2576 38 2577 33 36 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2578 38 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2585 36 2685	5A 2570 4F 3A 2571 4F 6F 2573 4F 2573 4F 2574 4F 3B 2576 4F 4B 2577 3H 3B 2576 4F 4B 2577 3H 3C 2580 3H 4C 2581 3H 5D 2582 3H 4C 2583 4H 4C 2588 4E 3C 2588 4H 4C 2588 4H 3C 2588 4H 4C 2588 4H 3C 2589 4D 4D 2591 4D 4D 2591 4E 4D 2593 4E 4D 2593 4E 4D 2593 4E 4D 2598 4E 4D 2599	5A 2570 4F 3206 3A 2571 4F 3207 6F 2572 4F 3208 2A 2574 4F 3209 3B 2575 3F 3210 3B 2576 4F 3211 4B 2577 4H 3212 3C 2580 3H 3215 4C 2581 3H 3215 4C 2581 3H 3217 5C 2583 3H 3217 5C 2583 3H 3219 4C 2586 4H 3220 3C 2588 4H 3229 4C 2588 4H 3251 4C 2588 4H 3251 4C 2588 4H 3253 4D 2587 4H 3253 4D 2589 4D 3253 4D 2588 4E 3253	5A 2570 4F 3205 7F 3A 2571 4F 3206 6F 6F 2572 4F 3209 6E 6F 2573 4F 3209 6E 3B 2576 4F 3211 5F 3B 2576 4F 3211 5F 4B 2577 4H 3213 5F 3C 2580 3H 3215 6F 4C 2581 3H 3216 6G 5D 2582 3H 3217 5F 5D 2584 4H 3220 5E 3C 2589 4H 3220 5E 3C 2588 4H 3225 7F 3C 2589 4H 3250 8E 4C 2588 4E 3257 7F 3C 2589 4D 3253 7E 4D 2591 4H	5A 2570 4F 3205 7F 6013 6F 2571 4F 3206 6F 6014 6F 2572 4F 3207 4H 6014 6F 2573 4F 3208 4H 6015 3B 2575 3F 3210 6E 6017 3B 2577 4H 3211 5F 6018 3B 2578 3H 3213 5F 6010 3C 2580 3H 3213 5F 6100 3C 2581 3H 3216 6G 6200 4C 2581 3H 3217 5F 6010 4C 2581 3H 3218 5F 7000 5D 2584 4H 3220 5E 7050 4C 2588 4H 3253 7E 7203 4B 2594 4H 3253 7E 7203

PCS 67 815

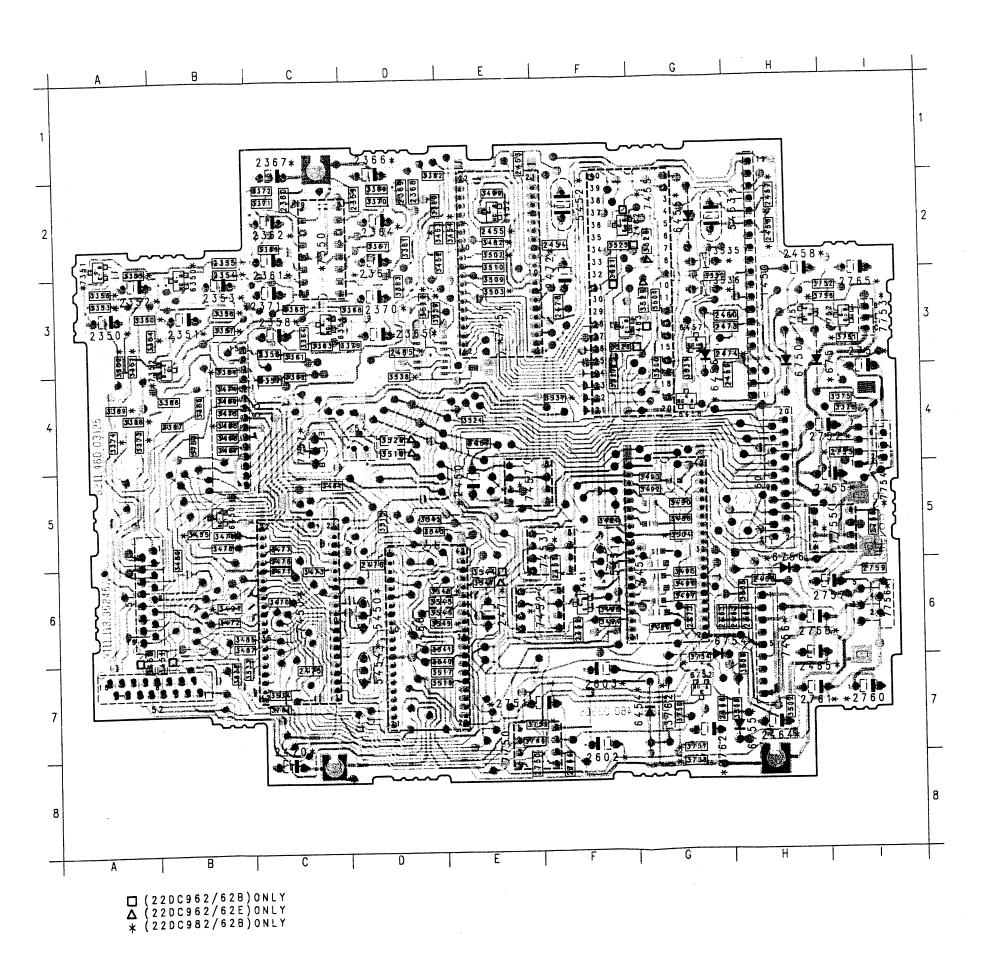
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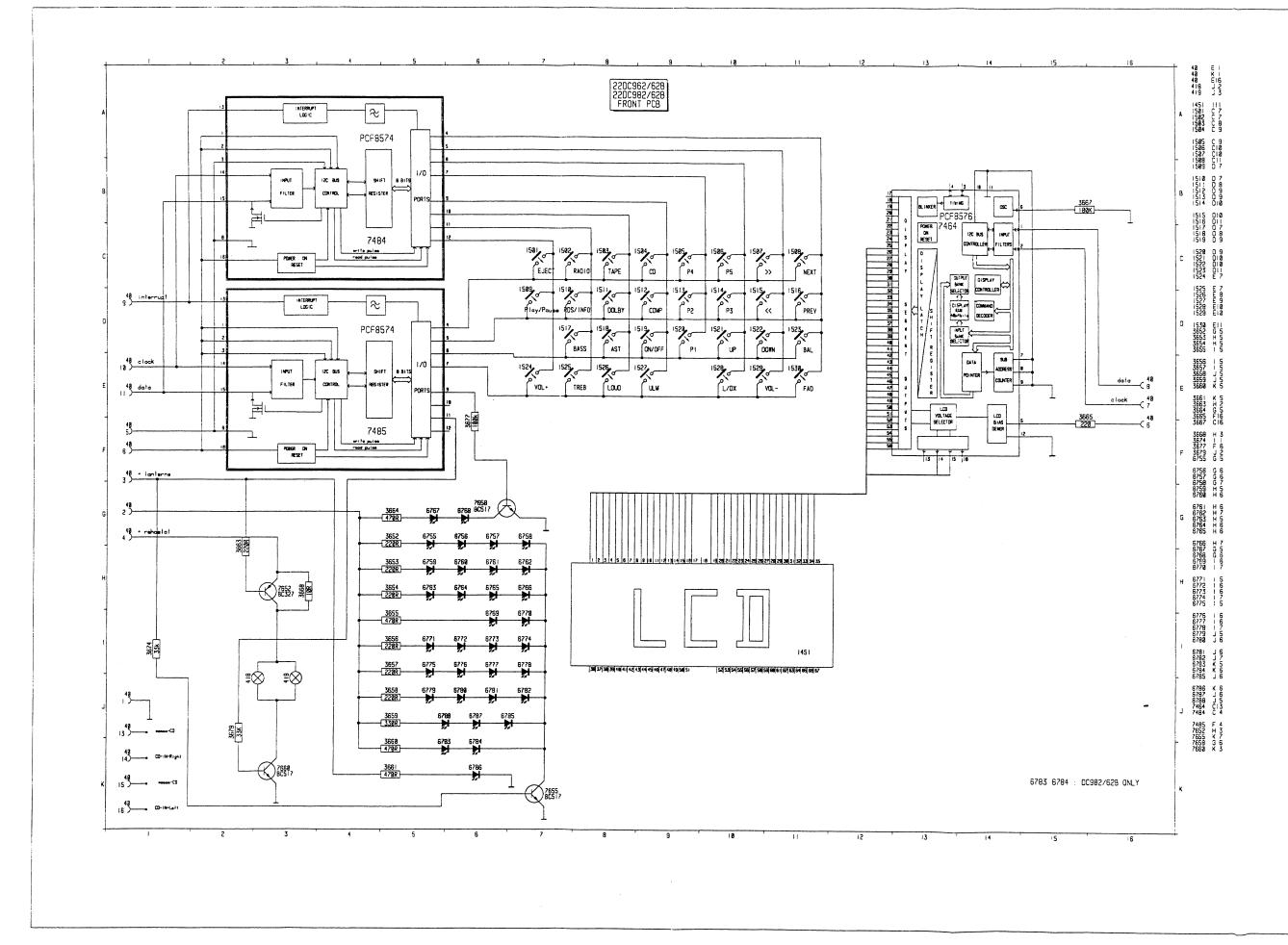




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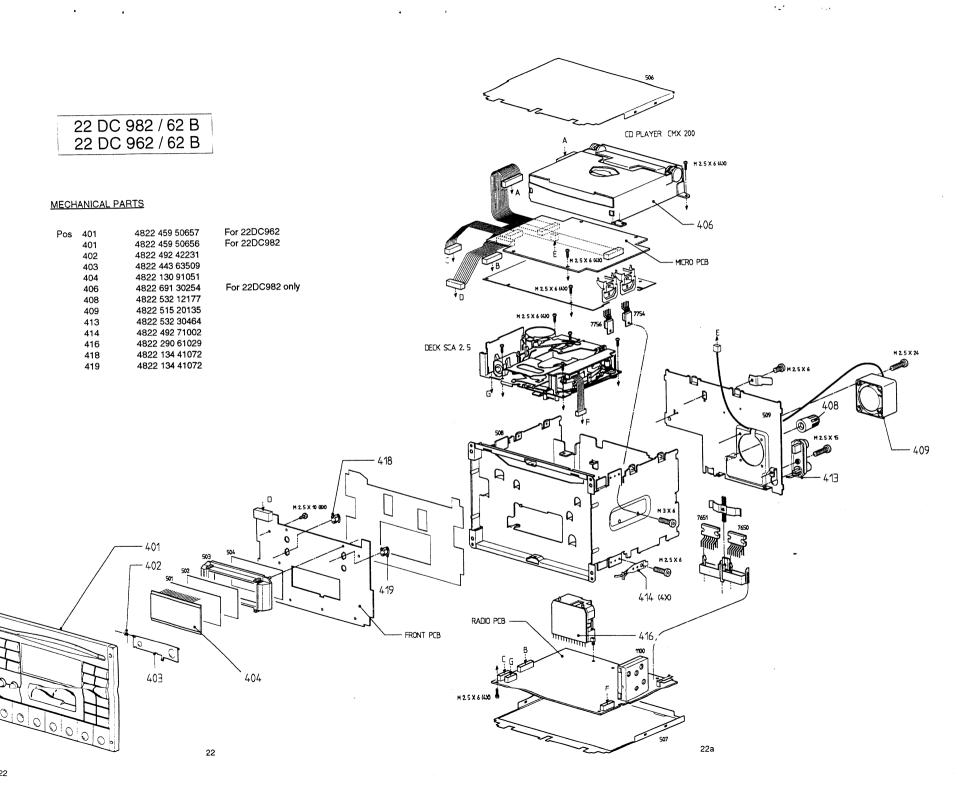
PCS 67 819



20

20a

21a



Miscell	aneous		-11-		
054	4822 214 51676	I.A.C THICKFILM	2072	4822 122 33175	2,2NF 20% X7R 50V
100	4822 210 10305	TUNER	2073	4822 122 33175	2,2NF 20% X7R 50V
200	4822 214 51856	ST.D THICKFILM	2100	4822 122 33555	22NF10%
	4822 209 62773	NR9550 THIFI DOLBY	2101	4822 122 33555	22NF10%
250			2102	4822 124 41969	1μF 20% 50V
250	4822 214 52082	DBC3 THICKFILM DOLBY	2102	4022 124 41300	1 p. 2010 00 1
1450	4822 214 52083	RDS5 THICKFILM	2103	4822 124 23768	220μF 20% 10V
	4822 276 13103	SWITCH	2150	4822 122 33496	100NF10%X7R 63V
1501		SWITCH	2152	4822 122 32542	47NF10%X7R 63V
1502	4822 276 13103		2153	4822 122 33515	82PF 5%NP0 63V
1503	4822 276 13103	SWITCH	1		22NF10%
1504	4822 276 13103	SWITCH	2154	4822 122 33555	22NF 1076
4505	4822 276 13103	SWITCH	2155	4822 122 33496	100NF10%X7R 63V
1505		SWITCH	2156	4822 122 33555	22NF10%
1506	4822 276 13103		2157	4822 124 40272	33uF20% 16V
1507	4822 276 13103	SWITCH	1		68PF 5%NP0 50V
1508	4822 276 13103	SWITCH	2158	4822 122 33514	
1509	4822 276 13103	SWITCH	2160	5322 126 10223	4,7NF 10% X7R 50V
			0450	4822 124 40244	2,2µF20% 63V
1510	4822 276 13103	SWITCH	2163		2,2NF 20% X7R 50V
1511	4822 276 13103	SWITCH	2164	4822 122 33175	
1512	4822 276 13103	SWITCH	2165	4822 122 32542	47NF 10% X7R 1206
	4822 276 13103	SWITCH	2167	5322 126 10223	4,7NF 20% X7R 63V
1513	4822 276 13103	SWITCH	2168	4822 122 33283	150PF 5%NP0 50V
1514	4022 210 10100		1		
1515	4822 276 13103	SWITCH	2170	4822 122 33555	22NF10%
1516	4822 276 13103	SWITCH	2171	5322 122 31866	6,8NF10%X7R 63V
	4822 276 13103	SWITCH	2172	4822 122 32891	68NF10%X7R 63V
1517			2173	4822 121 51252	470NF 5% 63V
1518	4822 276 13103	SWITCH		4822 122 33555	22NF10%
1519	4822 276 13103	SWITCH	2174	-022 122 00000	
1500	4822 276 13103	SWITCH	2175	4822 124 40272	33μF20% 16V
1520		SWITCH	2176	4822 124 40272	33µF20% 16V
1521	4822 276 13103		2177	4822 122 33283	150PF 5%NP0 50V
1522		SWITCH			100NF10%X7R 63V
1523	4822 276 13103	SWITCH	2178	4822 122 33496	
1524		SWITCH	2180	4822 122 33177	10NF 20% X7R 50V
		OMITOU	2200	4822 122 33496	100NF10%X7R 63V
1525	4822 276 13103	SWITCH			33µF20% 16V
1526	4822 276 13103	SWITCH	2201	4822 124 40272	
1527		SWITCH	2202	4822 124 41969	1μF 20% 50V
1528		SWITCH	2204	4822 124 23432	100μF20% 10V
1529		SWITCH	2205	4822 124 22403	10μF 20% 16V
1529		***			001151001
1530	4822 276 13103	SWITCH	2208	4822 122 33555	22NF10%
			2209	4822 122 33585	3,3NF10%
11			2210	4822 122 33585	3,3NF10%
41			2211	4822 124 40272	33μF20% 16V
2050		1NF10%X7R 63V	2213	4822 122 33585	3,3NF10%
2051		3,3PF 5%NP0 50V	1		
2052	5322 122 32287	4,7PF 5%NP0 50V	2214	4822 122 33585	3,3NF10%
2053		18PF 5%NPO 50V	2215	5322 126 10223	4,7NF10%X7R 63V
2054		330PF 5%NP0 50V	2216	5322 126 10223	4,7NF10%X7R 63V
2034				4822 124 41969	1μF20% 50V
205	5 5322 122 31863	330PF 5%NP0 50V	2250		1μF20% 50V
205		10NF 10% X7R 0805	2251	4822 124 41969	1µ1 20 /8 30 ¥
205			ļ		4 5000/ 501/
205		100NF10%X7R 63V	2252	4822 124 41969	1μF20% 50V
205	9 4822 124 41796	22μF20% 16V	2253	4822 124 41969	1μF20% 50V
206		150PF 5%NP0 50V	2254	4822 124 23432	100μF20% 10V
			2255	4822 124 23432	100μF20% 10V
206		22NF10%	2256	4822 124 23432	100μF20% 10V
206		2,2NF 20% X7R 50V			
206		1µF20% 50V	2350#	4822 124 41969	1μF20% 50V
206		33μF20% 16V			1μF20% 50V
		100NF10%X7R 63V	2351#		47μF20% 16V
206	5 4822 122 33496	100111 1070/111 001	2352#		10μF 20% 16V
206	6 5322 122 32658	22PF 5% 50V	2353# 2354#		100NF10%X7R 63V
1		100NF10%X7R 63V	2354#	+022 122 00430	.00,11, 10,0,11, 1, 301
206			1		100NE100 VED 001
206		47μF20% 16V	2355#		100NF10%X7R 63V
206		4,7NF10%X7R 63V	2356	4822 122 33496	100NF10%X7R 63V
207	O 4022 122 33175	3.3NF 30% X7R 50V	2357	4022 122 33496	100NF10%X7R 63V
١			2358	4822 124 23624	47µF20% 16V
1		OONE 100/	1	1000 100 00501	220PF 5%
20	71 4822 122 33555	22NF10%	2359	4822 122 33584	22UFF 376

11			11-		Val coof
2360	4822 122 33584	220PF 5%	2570	4822 122 33128	15NF 10% X7R 0805
2361	4822 124 23767	3.3µF20% 50V	2571	4822 122 32891	68NF 10% X7R 1206
2362	4822 124 40272	33μF20% 16V	2572	5322 126 10223	4N7 10% X7R 0805
2363	4822 124 23767	3.3µF20% 50V	2573	4822 122 33555	22NF 10% X7R 0805
2364	4822 124 40272	33µF20% 16V	2574	5322 122 31647	1NF 10% X7R 1206
		47μF20% 16V	2575	5322 122 31866	6N8 10% X7R 0805
2365	4822 124 23624		2576	5322 122 31863	330P 5% NP0 0805
2366	4822 124 22403	10μF 20% 16V	1	4822 124 41969	1μF 20% 50V
2367	4822 124 22403	10μF 20% 16V	2577		100NF10%X7R 63V
2368	4822 124 11355	SMC 2,2µF 6,3V 20%	2578	4822 122 33496	
2369	4822 124 11355	SMC 2,2µF 6,3V 20%	2579	5322 121 42661	330NF 10% 63V
0070	4822 124 41796	22µF20% 16V	2580	4822 122 32891	68N 10% X7R 1206
2370	4822 124 41796	22μF20% 16V	2581	4822 122 33128	15N 10% X7R 0805
2371		10μF 20% 16V	2582	4822 122 32891	68N 10% X7R 1206
2450	4822 124 22403		2583	5322 126 10223	4N7 10% X7R 0805
2451	4822 122 33496	100NF10%X7R 63V			22N 10% X7R 0805
2452	4822 122 33496	100NF10%X7R 63V	2584	4822 122 33555	2214 1078 7/11 0000
2453	5322 122 32659	33PF 5% 50V	2585	5322 122 31647	1N 10% X7R 1206
2454	5322 122 32659	33PF 5% 50V	2586	5322 122 31866	6N8 10% X7R 0805
2454	4822 122 33496	100NF10%X7R 63V	2587	5322 122 31863	330P 5% NP0 0805
		47μF20% 16V	2588	4822 122 31981	33NF+-0,5PF 50V
2458	4822 124 23624		2589	4822 122 31981	33NF+-0,5PF 50V
2459	4822 122 33496	100NF10%X7R 63V	2509		-
2460	4822 122 33496	100NF10%X7R 63V	2590	4822 122 33585	3,3NF10%
2461	5322 122 32658	22PF 5% 50V	2591	4822 122 33175	2,2NF 20% X7R 50V
2462	5322 122 31863	330PF 5%NP0 50V	2592	4822 122 33585	3,3NF10%
2462	5322 122 32268	470PF 10% 50V	2593	4822 122 33175	2,2NF 20% X7R 50V
2464	4822 124 40244	2,2μF20% 63V	2594	4822 124 22403	10μF 20% 16VV
			2505	4900 100 21001	33NF 10% X7R 1206
2465	4822 124 40244	2,2µF20% 63V	2595	4822 122 31981	22μF20% 16V
2466	4822 122 33496	100NF10%X7R 63V	2596	4822 124 41796	
2467	4822 122 33496	100NF10%X7R 63V	2597	4822 124 23432	100μF20% 10V
2468	4822 122 33496	100NF 10% 63V 1206	2598	4822 122 33325	470NF +80-20% 1206
2470	4822 124 40244	2,2μF20% 63V	2599	4822 122 33325	470NF +80-20% 1206
	1000 45 / 1004 /	0.0E009/ 631/	2600	4822 122 31981	33NF 10% X7R 1206
2471	4822 124 40244	2,2μF20% 63V	2600	4822 124 40201	1000μF 20% 16V
2472	4822 124 40272	33μF 20% 16V		4822 124 41009	470μF 20% 16V
2473	4822 122 33496	100NF10%X7R 63V	2602	4822 124 41009	470μF 20% 16V
2475	4822 122 33177	10NF 10% X7R 0805	2603	4822 124 22403	10µF 20% 16V
2476	4822 122 33177	10NF 10% X7R 0805	2650	4022 124 22403	•
2477	4822 122 33177	10NF 10% X7R 0805	2651	4822 122 33496	100NF10%X7R 63V
2478	4822 122 33177	10NF 10% X7R 0805	2652	4822 124 22412	2200μF 20% 16V
1		22NF10%	2653	5322 124 41948	470N+-20% 50V
2480	4822 122 33555		2654	5322 124 41948	470N+-20% 50V
2481 2482	4822 122 33555 5322 122 32448	22NF10% 10PF 5% 50V	2655	4822 124 23624	47μF20% 16V
2402	JULE 122 JE440				100NE100/VZD 60V
2484	5322 122 32448	10PF 5% 50V	2657	4822 122 33496	100NF10%X7R 63V
2550	4822 124 41969	1μF 20% 50V	2658	4822 124 22412	2200μF 20% 16V
2551	4822 124 41969	1μF 20% 50V	2659	5322 124 41948	470N+-20% 50V
2552	4822 124 41969	1μF 20% 50V	2660	5322 124 41948	470N+-20% 50V
2552	4822 124 41969	1μF 20% 50V	2661	_ 4822 124 23624	47μF20% 16V
		. 5 000/ 551/	2672	4822 122 33128	15NF10%X7R 63V
2554	4822 124 41969	1μF 20% 50V		4822 122 33128	15NF10%X7R 63V
2555	4822 124 41969	1μF 20% 50V	2673		100NF10%X7R 63V
2556	4822 124 41969	1μF 20% 50V	2674	4822 122 33496	
2557	4822 124 41969	1μF 20% 50V	2675	4822 122 33496	100NF10%X7R 63V
2558	4822 122 33128	15NF10%X7R 63V	2750	4822 122 32916	220NF 20% X7R 1210
0000	4822 122 33128	15NF10%X7R 63V	2751	4822 124 40272	33μF20% 16V
2559			2752	4822 124 41643	100μF 20% 16V
2560		47μF 20% 16V	2753	4822 122 33177	10NF 20% X7R 50V
2561		22μF 20% 16V	1	4822 124 23432	100µF 20% 10V
2562		1NF 10% X7R 1206	2754		100µF 20% 10V
2563	5322 122 31647	1NF 10% X7R 1206	2755	4822 124 23432	100με 20% 10 V
2564	4822 124 23624	47μF 20% 16V	2756	4822 122 33496	100NF10%X7R 63V
2564		22μF 20% 16V	2757	4822 124 22403	10μF 20% 16V
2565		1μF 20% 50V	2758	4822 124 40272	33µF 20% 10V
2566		68NF 10% X7R 1206	2759	4822 122 33496	100NF10%X7R 63V
2567	4822 122 32891	DOM: 10/6 A/ 11 1200			
2569		330NF 10% 63V	2760	4822 124 22403	10μF 20% 16V

			т.		
41-					
2761	4822 124 40272	33μF 20% 16V	3215	4822 051 20681	680Ω00 5% 0,1W
	4822 124 40244	2.2µF 20% 50V	3216	4822 051 20333	33KΩ00 5% 0,1W
2762	4822 124 40244 4822 122 33496	100NF 10% 63V 1206	3217	4822 051 20153	15KΩ00 5% 0,1W
2/64	4022 122 00400		3218	4822 051 20471	470Ω00 5% 0,1W 47Ω00 5% 0,1W
			3219	4822 051 20479	
3050	4822 051 20471	470Ω00 5% 0,1W	3220	4822 051 20332	3KΩ30 5% 0.1W
3051	4822 051 20471	470Ω00 5% 0,1W	3250	4822 051 20222	2KΩ20 5% 0,1W
3052	4822 051 20224	220ΚΩ 5% 0,1W	3251	4822 100 11319	4ΚΩ7
3053	4822 051 20472	4KΩ70 5% 0,1W	3252	4822 051 20109	10Ω 5% 0,1W 2KΩ20 5% 0,1W
3054	4822 051 20102	1KΩ00 5% 0,1W	3253	4822 051 20222	
3055	4822 051 20102	1KΩ00 5% 0,1W	3254	4822 100 11319	4ΚΩ7
3056	4822 051 20223	22ΚΩ00 5% 0,1W	3255	4822 051 20103	10ΚΩ00 5% 0,1W
3057	4822 051 20224	220KΩ00 5% 0,1W	3256	4822 051 20472	4ΚΩ7 5% 0805
3058	4822 051 20101	100Ω00 5% 0,1W	3257	4822 051 20472	4ΚΩ7 5% 0805 10ΚΩ00 5% 0,1W
3100	4822 051 20103	10KΩ00 5% 0,1W	3258	4822 051 20103	10/12/00 5% 0,144
3101	4822 051 20102	1KΩ00 5% 0,1W	3261	4822 051 20104	100ΚΩ 5% 0805
3106	4822 051 20221	220Ω00 5% 0,1W	3262	4822 051 20473	47ΚΩ 5% 0805
3109	4822 051 20152	1KΩ5 5% 0,1W	3263	4822 051 20104	100ΚΩ 5% 0805
3110	4822 051 20152	1KΩ5 5% 0,1W	3270	4822 051 20152	1KΩ50 5% 0,1W
3111	4822 051 10008	0Ω00 5% 0,25W	3271	4822 051 20152	1KΩ50 5% 0,1W
3150	4822 051 20102	1KΩ00 5% 0,1W	3272	4822 051 20332	3KΩ3 5% 0,1W
3151	4822 051 20331	330Ω00 5% 0,1W	3273	4822 051 20332	3KΩ3 5% 0,1W
3153	4822 051 20332	3KΩ30 5% 0,1W	3274	4822 051 20222	2ΚΩ2 5% 0805
3154	4822 051 20109	10Ω00 5% 0,1W	3280	4822 051 20569	56Ω 5% 0805
3155	4822 100 20166	10KΩ30%LIN 0,1W	3281	4822 051 20569	56Ω 5% 0805
3156	4822 051 20332	3KΩ30 5% 0,1W	3282	4822 051 20102	1ΚΩ 5% 0805
3157	4822 100 20166	10KΩ 30%LIN 0,1W	3283	4822 051 20103	10 Κ Ω 5% 0805
3158	4822 051 20109	10Ω00 5% 0,1W	3284	4822 051 20103	10ΚΩ 5% 0805
3159	4822 051 20472	4KΩ70 5% 0,1W	3285	4822 051 20224	220ΚΩ 5% 0805
3160	4822 051 20221	220Ω00 5% 0,1W	3350#	4822 051 20683	68KΩ00 5% 0,1W
3161	4822 051 20152	1KΩ50 5% 0,1W	3351#	4822 051 20103	10KΩ00 5% 0,1W
3162	4822 051 20152	1KΩ50 5% 0,1W	3352#	4822 051 20103	10KΩ00 5% 0,1W
3164	4822 051 20333	33KΩ00 5% 0,1W	3353#	4822 051 20683	68KΩ00 5% 0,1W
3165	4822 051 20222	2KΩ20 5% 0,1W	3354#	4822 051 20473	47ΚΩ 5% 0805
3170	4822 051 20103	10KΩ00 5% 0,1W	3355#	4822 051 20332	3KΩ3 5% 0,1W
2171	4822 051 20223	22KΩ00 5% 0,1W	3356#	4822 051 20332	3KΩ3 5% 0,1W
3171	4822 051 20223	33KΩ00 5% 0,1W	3357#		3KΩ3 5% 0,1W
3174	4822 051 20333	33KΩ00 5% 0,1W	3358#		3KΩ3 5% 0,1W
3176	4822 051 20333	33KΩ00 5% 0,1W	3361	4822 051 20683	68KΩ00 5% 0,1W
3177	4822 051 20472	4KΩ70 5% 0,1W	3362	4822 051 20683	68KΩ00 5% 0,1W
3178	4822 051 20471	470Ω00 5% 0,1W	3363	4822 051 20223	22KΩ00 5% 0,1W
3179	4822 051 20221	220Ω00 5% 0,1W	3364	4822 051 20103	10KΩ00 5% 0,1W
3180	4822 051 20103	10KΩ00 5% 0,1W	3365	4822 051 20334	330KΩ00 5% 0,1W
3190	4822 051 20101	100Ω00 5% 0,1W	3366	4822 051 20103	10KΩ00 5% 0,1W
3191	4822 051 20101	100Ω00 5% 0,1W	3367	4822 051 20103	10KΩ00 5% 0,1W
3200	4822 051 20154	150KΩ00 5% 0,1W	3368	4822 051 20334	330KΩ00 5% 0,1W
3200	4822 051 20474	470KΩ00 5% 0,1W	3369	4822 051 20223	22KΩ00 5% 0,1W
3202	4822 051 20109	10Ω00 5% 0,1W	3370	4822 051 20223	22KΩ00 5% 0,1W
3203	4822 051 20225	2M2 5% 0,1W	3371	4822 051 20223	22KΩ00 5% 0,1W
3204	4822 051 20225	2M2 5% 0,1W	3372	4822 051 20223	22KΩ00 5% 0,1W
3205	4822 051 20109	10Ω00 5% 0,1W	3373		1ΚΩ 5% 0805
3206	4822 051 20109	10Ω00 5% 0,1W	3374		1ΚΩ 5% 0805
3207	4822 051 20105	1M 5% 0805	3375	4822 051 20339	33Ω00 5% 0,1W
3208	4822 051 20105	1M 5% 0805	3376		10Ω00 5% 0,1W
3209		47KΩ00 5% 0,1W	3379	4822 051 20153	15KΩ00 5% 0,1W
3210	4822 051 20333	33K000 5% 0.1W	3380		4KΩ7 5% 0.1W
3211	4822 051 20153	15KDOO 5% 0,1W	3381	4822 051 20472	4KΩ7 5% 0,1W
3212		15KΩ00 5% 0,1W	3382		10KΩ 5% 0,1W
3213	4822 051 20472	4KΩ70 5% 0.1W	3383	4822 051 20103	10ΚΩ 5% 0,1W
3214		33ΚΩ 5% 0805	3384	4822 051 20102	1KΩ 5% 0805

	1000 051 20102	1ΚΩ 5% 0805	3523	4822 051 20103	10KΩ 5% 0,1W
385	4822 051 20102	2ΚΩ2 5% 0805	3524	4822 051 20103	10KΩ00 5% 0,1W
386	4822 051 20222		3525	4822 051 20151	150Ω 5% 0,1W
3387	4822 051 20222	2ΚΩ2 5% 0805	3527	4822 051 20681	680Ω 5% 0,1W
388#	4822 051 20103	10KΩ00 5% 0,1W	3528	4822 051 20151	150Ω 5% 0,1W
389#	4822 051 20103	10KΩ00 5% 0,1W	3526	4022 001 20101	
	4822 051 20008	JUMPER OΩO5	3530	4822 051 20103	10ΚΩ00 5% 0,1W
3450		CHIP JUMPER	3531	4822 051 20103	10KΩ00 5% 0,1W
3451	4822 051 10008		3532	4822 051 20153	15KΩ00 5% 0,1W
3452	4822 051 20153	15KΩ00 5% 0,1W	3533	4822 051 20153	15KΩ00 5% 0,1W
3453	4822 051 20153	15KΩ00 5% 0,1W	3534	4822 051 20153	15KΩ00 5% 0,1W
3454	4822 051 20153	15KΩ00 5% 0,1W	3554	4022 051 25100	
3455	4822 051 20103	10KΩ00 5% 0,1W	3535	4822 116 40221	POSIST PTH60G31AR8Ω2 POSIST PTH60G31AR8Ω2
	4822 051 20102	1KΩ00 5% 0,1W	3536	4822 116 40221	POSIST PTHOOGSTAROSZZ
3467*	4822 051 20102	1KΩ00 5% 0,1W	3540	4822 051 20153	15ΚΩ00 5% 0,1W
3468*		4KΩ70 5% 0,1W	3541	4822 051 20153	15KΩ00 5% 0,1W
3469*	4822 051 20472		3542	4822 051 20102	1KΩ00 5% 0,1W
3470	4822 051 20153	15ΚΩ 5% 0805	00.72		
3471	4822 051 20103	10KΩ00 5% 0,1W	3543	4822 051 20102	1KΩ00 5% 0,1W
3471		15KΩ00 5% 0,1W	3544	4822 051 10008	CHIP JUMPER
3472*	4822 051 20153	15KΩ00 5% 0,1W	3545	4822 051 10008	0Ω00 5% 0,25W
3473	4822 051 20153		3546	4822 051 10008	oΩ00 5% 0,25W
3474*	4822 051 20472	4KΩ70 5% 0,1W	1	4822 051 10000	100ΚΩ 5% 0805
3475*	4822 051 20102	1KΩ00 5% 0,1W	3550	4022 031 20 104	
	4000 054 00402	10KΩ00 5% 0,1W	3551	4822 051 20104	100ΚΩ 5% 0805
3476	4822 051 20103		3552	4822 051 20104	100ΚΩ 5% 0805
3477	4822 051 20153	15KΩ00 5% 0,1W	3553	4822 051 20104	100ΚΩ 5% 0805
3478	4822 051 20153	15KΩ00 5% 0,1W	3554	4822 051 20104	100ΚΩ 5% 0805
3479	4822 051 20153	15KΩ00 5% 0,1W		4822 051 20104	100ΚΩ 5% 0805
3480	4822 051 20103	10KΩ00 5% 0,1W	3555	4022 031 20 104	. • • • • • • • • • • • • • • • • • • •
		10ΚΩ00 5% 0,1W	3556	4822 051 20104	100ΚΩ 5% 0805
3481	4822 051 20103		3557	4822 051 20104	100ΚΩ 5% 0805
3482	4822 051 20103	10ΚΩ00 5% 0,1W	3558	4822 051 20104	100ΚΩ 5% 0805
3483*	4822 051 20102	1ΚΩ00 5% 0,1W		4822 051 20104	100ΚΩ 5% 0805
3484	4822 051 20153	15KΩ00 5% 0,1W	3559	4822 051 20472	4KΩ70 5% 0,1W
3485	4822 051 20153	15KΩ00 5% 0,1W	3560	4822 051 20472	414270 070 07111
	4000 051 00103	10KΩ00 5% 0,1W	3561	4822 051 20151	150Ω 5% 0805
3486	4822 051 20103	15KΩ00 5% 0,1W	3562	4822 051 20472	4KΩ70 5% 0,1W
3487	4822 051 20153		3563	4822 051 20105	1M 5% 0805
3488	4822 051 20103	10ΚΩ00 5% 0,1W	3564	4822 051 20105	1M 5% 0805
3489	4822 051 20103	10KΩ00 5% 0,1W	3565	4822 051 20105	1M 5% 0805
3490	4822 051 20103	10ΚΩ00 5% 0,1W	3303	4022 001 20100	
3491#	4822 051 10008	CHIP JUMPER	3566	4822 051 20105	1M 5% 0805
1		15KΩ00 5% 0,1W	3567	4822 051 20105	1M 5% 0805
3492	4822 051 20153	15KΩ00 5% 0,1W	3569	4822 051 20105	1M 5% 0805
3493	4822 051 20153		3570	4822 051 20105	1M 5% 0805
3494	4822 051 20103	10ΚΩ00 5% 0,1W 15ΚΩ00 5% 0,1W	3571	4822 051 20105	1M 5% 0805
3495	4822 051 20153	13/12/00/3 /6 0,144		•	
3496	4822 051 20153	15KΩ00 5% 0,1W	3572	4822 051 20105	1M 5% 0805
3497	4822 051 20153	15KΩ00 5% 0,1W	3573	4822 051 20105	1M 5% 0805
	4822 051 20102	1KΩ00 5% 0,1W	3574	4822 051 20151	150Ω 5% 0805
3498		10ΚΩ00 5% 0,1W	3575	4822 051 20103	10KΩ 5% 0,1W
3499 3500	4822 051 20103 4822 051 20103	10ΚΩ00 5% 0,1W	3576	4822 051 20333	33KΩ 5% 0,1W
3300					10ΚΩ 5% 0805
3501	4822 051 20103	10KΩ00 5% 0,1W	3651	4822 051 20103	
3502	4822 051 20103	10 ΚΩ00 5% 0,1W	3652	4822 116 52215	220E 5% 0,5W
3502	4822 051 20103	10KΩ00 5% 0,1W	3653	4822 116 52215	220E 5% 0,5W
1	4822 051 20103	10ΚΩ00 5% 0,1W	3654	4822 116 52215	220E 5% 0,5W
3504	4822 051 20103	100ΚΩ00 5% 0,1W	3655	4822 050 24701	470Ω 1% 0,6W
3505	4022 001 20104				000F 50/ 0 5/M
3506	4822 051 20683	68KΩ00 5% 0,1W	3656	4822 116 52215	220E 5% 0,5W
3507	4822 051 20223	22KΩ00 5% 0,1W	3657	4822 116 52215	220E 5% 0,5W
3508	4822 051 20334	330KΩ00 5% 0,1W	3658	4822 116 52215	220E 5% 0.5W
3509	4822 051 20153	15KΩ00 5% 0,1W	3659	4822 050 23301	330Ω 1% 0,6W
3510	4822 051 20153	15KΩ00 5% 0,1W	3660	4822 050 24701	470Ω 1% 0,6W
55.0				4000 050 45001	5600 1% 0 4W
3513		15KΩ00 5% 0,1W	3661	4822 050 15601	560Ω 1% 0,4W 1KΩ50 1% 0,6W
3517		15KΩ00 5% 0,1W	3663	4822 050 21502	
		15KΩ00 5% 0,1W	3664	4822 050 24701	470Ω 5% R25J 220Ω 5% 0,5W
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7454	4822 900 10364	INTERFACE	
7455	4822 209 31138	PCF80C51BH-3P/J306	
7433	4022 203 31136	FCF60C51BH-3F/3306	
7456	4822 209 83159	LA2000	
7457	4822 900 10265	RDS MEMORY	
7458	4822 900 10372	COMMUNUCATION	
7459#	4822 130 60511	BC847B	
7460#	5322 130 41982	BC848B	
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663	4822 130 e225e	SM SET MTDoors 5	
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Service Service Service Version 2.2 Version 2.5

ServiceManual

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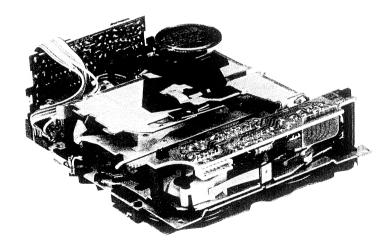


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DECK - DESCRIPTION

The SCA - versions 2.2 and 2.5 are full logic servo controlled Autoreverse Tapedecks, containing the mechanism, servo- and capstan motor, preamplifier (Audio - PCB) and microprocessor controlled electronics. The following features are available:

FEATURES:

PLAYBACK HEAD:

Dolby head with Philips AZIMUTH guiding. Fix mounting,

no screws, no alignment necessary.

CASSETTE INSERTION:

The cassette is inserted until one feels klick and conterforce

CASSETTE LOADING:

After a manual insertion distance of about 6 mm the cassette

moves motor controlled to the play position.

TAPF TIGHTENING:

Before a new loaded cassette starts play or before a cassette is ejected the tape transport mechanism will tighten the tape.

TAPE SALAD PROTECTION:

The tape transport is continuously controlled by microcomputer via servo motor. If there is irregular tapetransport, the mechanism will change the play-direction and correct the tapetransport. If there is no correction possible, it tries it again up to maximum

6 times. Then the cassette will be ejected.

TAPE TENSION:

Nearly constant during play (from beginning until end of tape) due to a constant tape force realized by the servo motor.

EJECT:

After the eject command is activated, the cassette is carried back via a servo motor controlled system to the defined controlled

loading position (for SCA 2.2 current consumtion will be reduced).

TAPE END:

Automatic reversion at tape end. The servo motor changes direction of rotation and therefore the opposite pinch roller and the

driving wheel transports the tape quickly (< 0.8 sec) in the

other direction (no movement of headplate).

MANUAL REVERSE:

If the reverse command is activated, the deck changes to the opposite play direction. (< 0.8 sec) Same function as tape end.

AUTOMATIC TAPE SELECTION:

Ferro, Metal and Chromium tape will be automatically detected. The "ME/FE" for switching preamplifier equalization has the

high - Metal or Chromium tape

low - Ferro tape.

The state command will be sent to the bus interface too.

MUSIC SEARCH SYSTEM:

If the MSS-function is activated, the head and pinchroller go back into the wind position. Tape transport is fast and the head detects modulation of the tape. If a modulation pause > 3 sec is

tape transport remains fast at the next modulation start.

PEOGRAMMABLE MSS VIA

MSS CONTOL:

Depending on the number of times the MSS-command is sent, n songs be skipped and the next played (n times = n songs

skipped). Tape end deletes this function.

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FFW - FRW FUNCTION:

FFW = wind in previous play direction

FRW = wind in opposite play direction If the FFW/FRW command is activated, the head plate

falls back in the wind position. Servo motor speed is increased.

STAND BY:

a) power off stand by

If the power supply is switched off, head and pinch roller

are completely lifted from the tape.

(No current is supplied.)

b) manual stand by

If the stand by command is activated, the deck is switched

off (motor stopped), the head and pinch rollers are

completely lifted from tape.

1. MECHANICAL SPECIFICATION

Operating positions:

Any position from horizontal -30° to standing vertically

on the rear side.

Tape speed:

4.76 cm/sec

Wow and flutter:

< 0,3% unweighted

Winding time

test tape: RCA 118

< 120 sec

Eiect time:

< 1.6 sec

2. ELECTRICAL SPECIFICATION

Voltage

min 10.0 V max 16.0 V

current - playback

220 mA

current - fast wind

100 - 150 mA

current - eject, standby

SCA 2.2: 50 μA

SCA 2.5: 12 mA

Hold in voltage

8.0 V

Capstan motor

14,4 V DC

Servo motor

2 V DC Play

11,5 V DC Fast, servo

PLAYBACK CROSSTALK

ch 1-2/3-4

35 - 40 dB 45 - 50 dB

ch. 2 - 3

SCA 2 2/2 5

REPAIRINSTRUCTIONS

Protect the tape-decks against ESD.

For demounting see figures 1 to 7.

Plastic catches and snap connections must be released careful with a screwdriver or tweezers.

Disks (Pos.60) must be renewed after demounting.

Before taking out the cassette carrier, put the right leg of the eject spring (Pos.503) into the mounting position, otherwise it will hit against the guidance and breaks it (see figure 8).

Check that segments (Pos.66) and bracket (Pos.71) are fitted in the correct position. Then unlock the segments (see figure 6).

After fitting switch lever (Pos.72) the leaf spring must be pressed over the black lug of the chassis (see figure 7).

For lubrication see indications in the exploded view.

To clean tape transport and head only use wet cleaning ta-

Tools required:

test cassette SBC 420 test cassette SBC 419 (4822 397 30071) (4822 397 30069) (4822 395 30054)

friction test cassette puller for clutch (fig.2)

(4822 395 60039)

wow & flutter meter

ADJUSTMENTS

Frictions:

Adjust potentiometer Pos.3415 until friction-test-cassette shows 6,5 Nmm to 9,5 Nmm in NOR-direction (after 2 minutes), and 7 Nmm in REV-direction.

The supplying reel drag must be 0,3 Nmm to 0,7 Nmm. If values deviates, check lubrication and carrier-spindle (Pos.62).

Wow and flutter, tape speed:

Connect wow and flutter meter to loudspeaker outputs and play the 3150 Hz signal track of test cassette SBC 420. Value should be max. 0,3 %. Tape speed can be ad-

justed with motor potentiometer A. Use a screwdriver with an insulated shaft (see figure 8)!

If the value of wow and flutter is not correct, check motors (Pos.1002, 1003), pressure rollers (Pos.68, 70), flywheels (Pos.77), belt (Pos.79), pulley (Pos.76) and

spring torwartstraction (Pos.65).

Check also the distance between bracket of pressure roller NOR-side and the adjustable excenter when the deck plays in NOR-direction (see figure 10).

Output level:

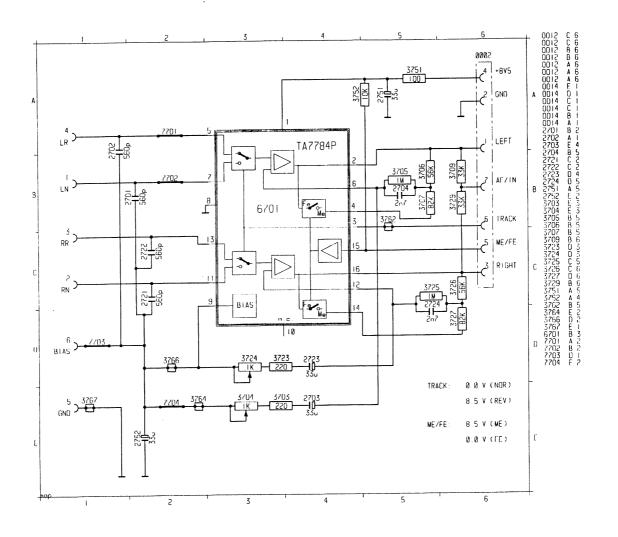
Play track 400 Hz - 200 nWb/m of testcassette SBC 419. For left channel measure at pin 1 of connector 0002, align potentiometer (Pos.3704). For right channel measure at pin 3 of connector 0002,

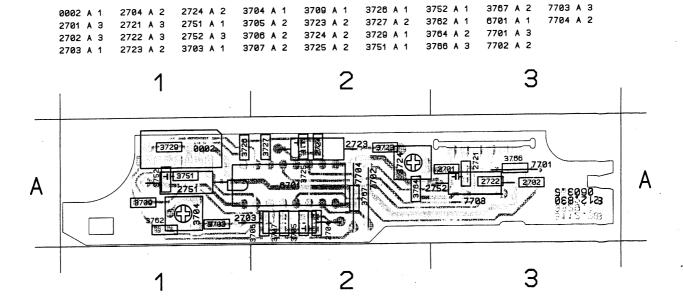
align potentiometer (Pos.3724).

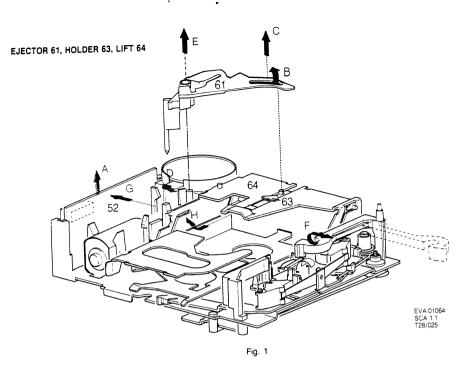
SCA 2.2: 38.8 mV +/- 1 dB SCA 2.5: 52,0 mV +/- 1 dB

64599 SS

PCS 64598







CLUTCH 51, SWITCH 53, GEAR WHEEL 58, CARRIER 62

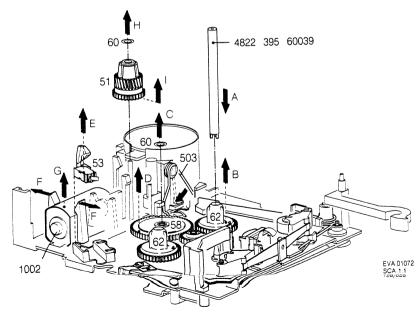
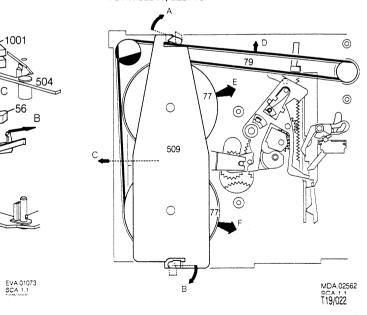


Fig. 2

Fig. 3 FLYWHEEL 77, BELT 79





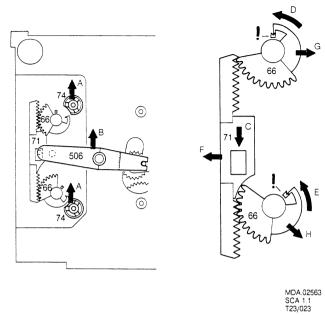


Fig. 6

SWITCH 54, SWIVEL GEAR 69, LEVER 72

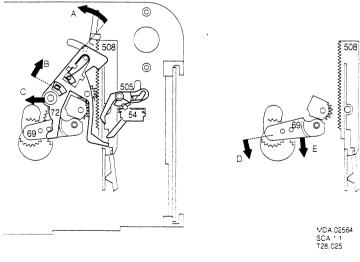
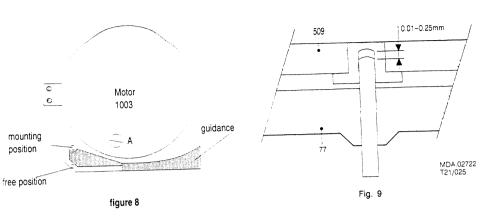


Fig. 7

PCS 64603

ANCHOR 56/78, RELAY 1001

D(2x)



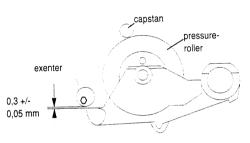
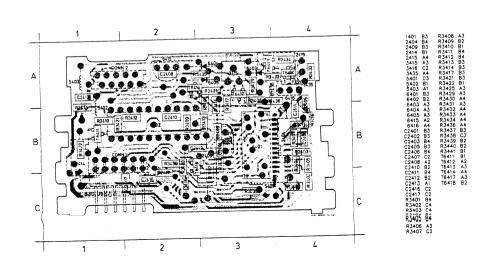


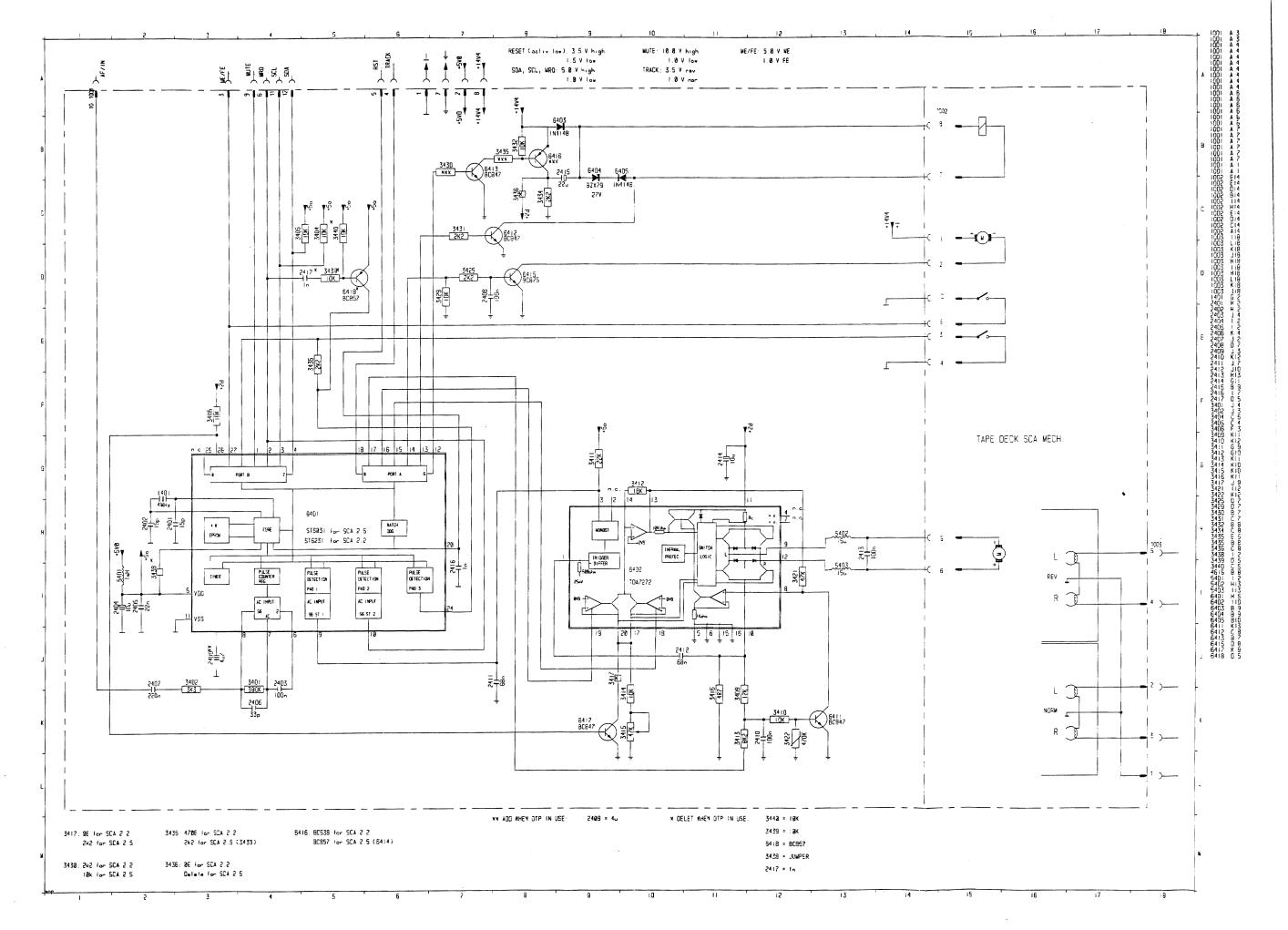
figure10

SCA 2.2/2.5

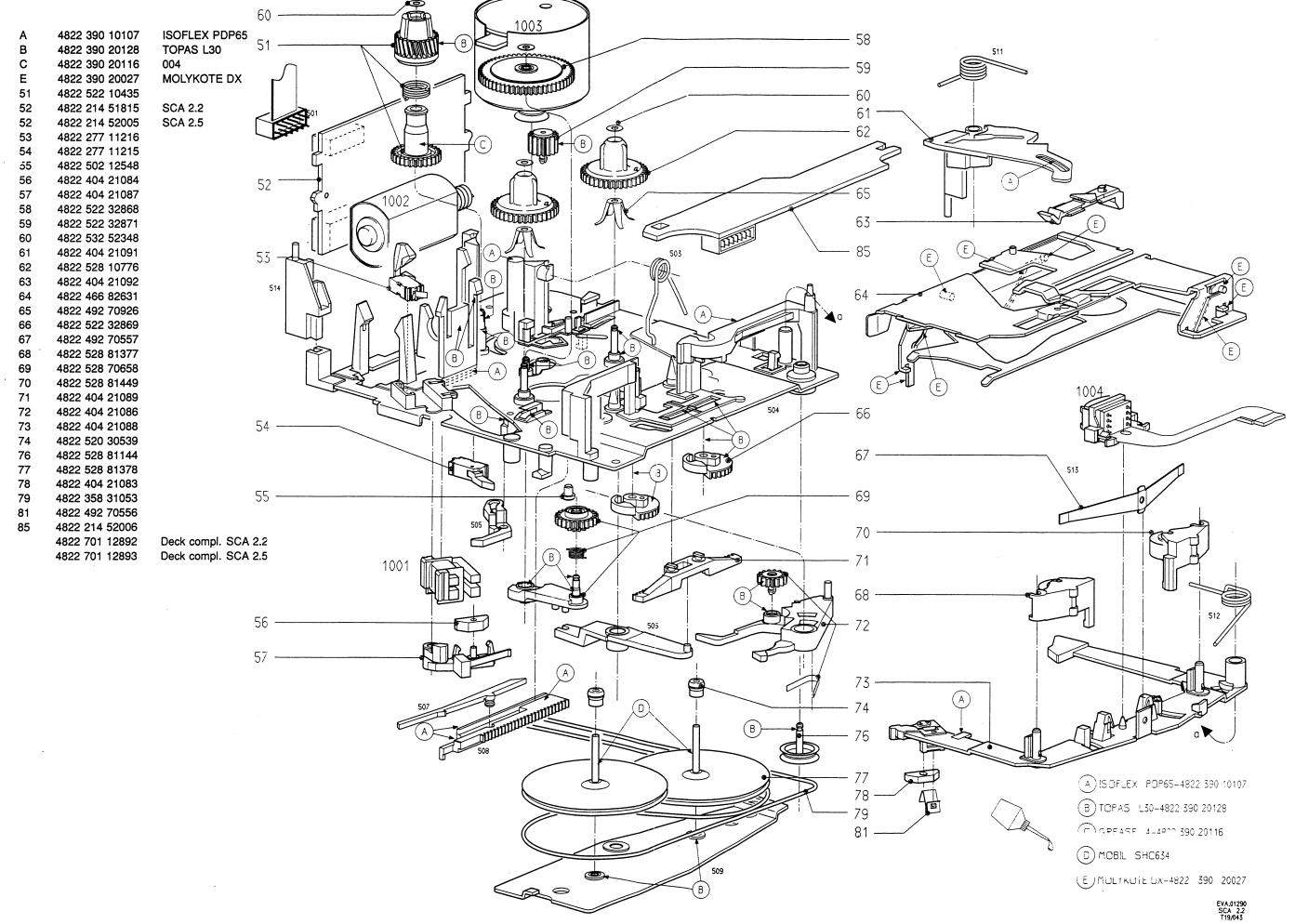


	special for version 2.5	equal for both versions	special for version 2.2
9	·	Pos. 6401 S6D3	
	1: 2: 3: 4: 5: 6: 7: 8: 9: 0,0 (Sb) 10: 11: 12: 0,0 / 5,0 (W) 13: 5,0 14: 5,0 (P) 15: 16: 17: 18: 19: 20: 21: 22: 23: 5,0 24: 0,0 25: 26: 27: 28:	3,7 / 0,1 (P) 5,0 5,0 5,0 5,0 5,0 2,5 2,50,0 (Sb) 2,50,0 (Sb) 0,1 (P) / 0,7 (W) 5,0 GND 0,0 (Sb) 0,0 5,0 (N) / 0,0 (R) 0,0 (N) / 5,0 (R) 5,0 (P) / 0,2 (W) 0,0 (N) / 5,0 (R) 2,5 5,0 2,5 4 MHz 5,0 n.c. 0,1 0,0 (FE) / 5,0 (ME) 0,0 / 5,0 (Sb)	1,2 (Sb) 4,7 / 0,0 (Sb) 4,7 4,7 (P) 5,0 (Sb) 5,0 V (Sb) 0,0 (Sb)0,1 0,0 (Sb)
		Pos. 6402 SCA 5058	
	1: 2: 3: 0,0 (Sb) 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 2,3 (Sb) 14: 15: 16: 17: 18: 19: 20:	0,0 n.c. 0,1 (P) / 0,7 (W) n.c. GND GND n.c. 0,0 (P) / 3,5 (W) 3,5 (PN) / 1,3 (PR) / 10,6 (WN) / 1,0 (W 0,5 (P) / 0,25 (W) 12,0 1,3 (PN) / 3,5 (PR) / 1,0 (WN) / 10,6 (W 3,5 2,3 GND GND GND 0,8 / 0,0 (Sb) 5,0 (N) / 0,0 (R) 0,8 / 0,0 (Sb)	
	PCS 64605	11	SCA 2.2/

	special for version 2.5	equal for both versions	special for version 2.2
		Pos. 6411 BC847	
B: C: E:	2,3 (Sb)	0,65 (P) / 0,2 (W) / 0,0 (Sb) 0,0 (P) / 3,5 (W) GND	0,0 (Sb)
		Pos. 6412 BC847	
B: C: E:		0.8 / 0,0 (Sb) 0,1 / 12,0 (Sb) GND	
		Pos. 6413 BC847	
B: C:	0,0 / 0,7 (W) 12,0 / 0,0 (W)		0,8 / 0,0 (Sb) 0,1 / 12,0 (Sb)
E:		GND	· · · · · · · · · · · · · · · · · · ·
		Pos. 6415 BC875	
B: C: E:		0,0 / 1,5 (P) 11,0 / 0,8 (P) GND	
	BC857	Pos. 6416	BC638
B: C:	12,0 0,0 / 12,0 (W)		11,2 / 12,0 (Sb)
E:	0,07 12,0 (**)	12,0	12,0 / 0,0 (Sb)
		Pos. 6417 BC847	
B: C: E:		0,1 0,8 / 0,0 (Sb) GND	
•	alues in Volt-DC, measured agai	not CND	
All va	alues in voit-DC. measured adail	nsi GND	



PCS 64607



ELECTRICAL PARTS

Capac	itor			
2401	5322 122 33869	15pF	5%	63V
2402	5322 122 33869	15pF	5%	63V
2403	4822 122 33496	100nF	10%	63V
2404	4822 124 20697	10µF	50%	25V
2405	5322 122 32654	22nF	10%	63V
2406	5322 122 32659	33pF	5%	50V
2407	4822 122 32916	220nF	10%	63V
2408	4822 122 33496	100nF	10%	63V
2410	4822 122 33496	100nF	10%	63V
2411	4822 122 32891	68nF	10%	63V
2412	4822 122 32891	68nF	10%	63V
2413	4822 122 33496	100nF	10%	63V
2414	4822 124 20697	10μF	50%	25V
2415	4822 124 20698	22μF	50%	25V
2416	4822 122 33178	1nF	20%	50V
2701	4822 122 33173	560pF	10%	50V
2702	4822 122 33173	560pF	10%	50V
2703	4822 124 20688	33μF	50%	16V
2704	4822 122 33176	2.7nF	20%	50V
2721	4822 122 33173	560pF	10%	50V
2722	4822 124 20688	560pF	10%	50V
2723		33µF	50%	16V
2724		2.7nF	20%	50V
2751		33µF	50%	16V
2752		33µF	50%	16V
Resis	tor			
3401 3402 3403 3404 3405	4822 051 20394 4822 051 20332 4822 051 20103 4822 051 20103 4822 051 20103	390k 3k3 10k 10k 10k	5% 5% 5% 5%	0.1W 0.1W 0.1W 0.1W
3406	4822 051 20103	10k	5%	0.1W
3409	4822 051 20123	12k	5%	0.1W
3410	4822 051 20103	10k	5%	0.1W
3411	4822 051 20223	22k	5%	0.1W
3412	4822 051 20183	18k	5%	0.1W
3413 3414 3415 3416 3417	4822 051 20822 4822 051 20272 4822 100 11878 4822 050 24708 4822 051 20222	8k2 2k7 Adj. po 4E7 2k2	5% 5% atm. 22k 1% 5%	0.1W 0.1W 0.6W 0.1W
3421 3422 3425 3429 3430	4822 051 20473 4822 116 30434 4822 051 20222 4822 051 20103	47k	5% stor 470k 5% 5% 5%	0.1W 0.1W 0.1W 0.1W

Resistor	
3431 4822 051 20222 2k2 5% 0.1W	١
3432 4822 051 20103 10k 5% 0.1W	- 1
3433 4822 051 20222 2k2 5% 0.1W	
3434 4822 051 20222 2k2 5% 0.1W	-
3437 4822 051 20222 2k2 5% 0.1W	
3438 4822 051 20008 0E 5% 0.1W	1
3441 4822 051 20008 0E 5% 0.1W	-
3703 4822 051 20221 220E 5% 0.1W	-
3704 4822 100 11348 Adj. potm. 1k	
3703 4022 001 20100 1111	
3706 4822 051 20563 56k 5% 0.1W	
3707 4822 051 20823 82k 5% 0.1W	
3709 4822 051 20333 33k 5% 0.1W	- 1
3723 4822 051 20221 220E 5% 0.1W	1
3724 4822 100 11348 Adj. potm. 1k	
3725 4822 051 20105 1M 5% 0.1W	- 1
3726 4822 051 20563 56k 5% 0.1W	- 1
3727 4822 051 20823 82k 5% 0.1W	
3729 4822 051 20333 33k 5% 0.1W	- 1
0,01 1022 001 20101	
3752 4822 051 20103 10k 5% 0.1W	
3762 4822 051 20008 0E 5% 0.1W	- 1
0704 4022 001 20000	
3766 4822 051 20008 0E 5% 0.1W 3767 4822 051 20008 0E 5% 0.1W	
Coil	
5401 4822 157 50975 1mH	
5402 4822 157 50965 15μH	
5403 4822 157 50965 15µH	
Diode Transistor	
4822 130 42705 BC847	
4822 130 61233 BC857	
5322 130 61677 BC875	
4822 130 34379 BZX79-B27	
4822 130 30621 1N4148	
1.0.	
6401 4822 209 31559 ST6231+RC μP SCA 2.2	
6401 4822 209 31576 ST6031 RC5 μP SCA 2.5	5
6402 4822 209 31617 TDA7272 Motor control	
6701 4822 209 71871 TA7784P Pre-amplifier	
MISCELLANEOUS	
1001 4822 281 11051 Double magnet	
1002 4822 361 30297 Servo motor	
1003 4822 361 30294 Capstan motor	
1004 4822 249 30186 Playback head	
1401 4822 242 70831 Ceram. resonator 4MHz	

15

Car CD mechanism CMX-200







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1. SPECIFICATION

Operating voltage Operating temperature Frequency response

: 10.8 - 15.6V : -10 - 50°C

: 5 - 20,000Hz ± 3dB

Harmonic distortion

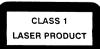
: 0.015% (1kHz)

S/N ratio

: ≥ 80dB

Channel difference Channel separation :≤ 3dB : ≥ 70dB





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4822 725 24151



PCS 64609

SCA 2.2/2.5

2. FUNCTIONAL DESCRIPTION

When the Optical pick-up block has moved completely towards the centre and the limit switch is switched on, the sled motor starts to rotate the gear in the direction of the arrow (Fig. 1).

The deck section is fixed to the chassis. Now the lock gear switch is switched on and the loading motor starts rotating to eject the CD.

3.1 SERVICE HINTS

In PLAY mode, the deck section is only connected to the chassis through the dampers to avoid it is affected by vibrations.

The lock gear is fixed in the notch of the chassis only in STOP mode (Fig. 2).

If the lock gear is not firmly fixed in the notch, the disc cannot be inserted or removed.

In that case rotate the gear near the sled motor by hand till the lock gear is fixed firmly.

- When serviceing, do not take the Optical pick-up block apart and do not adjust the APC circuit.
- In case of a defect replace the complete Optical pick-up block (including the APC pcb).
- When re-assembling, place the Sensor pcb while keeping the pin pressed to the right (Fig. 3). Fixing the Sensor pcb forcibly may cause breakage of the switch.

3.2 SERVICE TOOLS

Test CD "skew disc" 4822 701 11922 Test CD "eccentricity" 4822 701 11923

Test CD "5" & "5A"

Test CD "Audio signals 1"

4822 397 30096 4822 397 30184

4. CHECKS

Initial start-up, rafoc unit

- Insert test CD "skew-disc".
- Playback tracks 1-9 (first 20 minutes) without interruptions.

Disc drive motor and servo motor

- Insert test CD "eccentricity".
- Playback tracks 1-20 without interruptions.

Interruptions, black dots, fingerprints

- Insert test CD "5A".
- Playback tracks 9, 11-17 (prefered: 17), 18, 19 (prefered 19) without interruptions.

Specification

Check with test CD "Audio signals disc 1".

5.1 IC1 PINS

Pin	Description	Pin	Description	Pin	Description	
1	Serial data out	18	Audio mute control out	40	Clock in	
2	Clock out	19	PLL control out	41	Serial data out	
3	Latch out	20	Clock out	42	Reserved	
4	Loading start in	21	Reset out	43	Serial data in	
	8cm disc eject compl in	22	Laser control out	44	Ground	
5	Disc chucking compl in	23	8cm disc gain ctl out	45-48	Reserved	
6	Chucking start out	24, 25	Ground	49	Sound ctl (tm) out	
7	8/12cm disc detect in	26, 28	VDD	50-52	Ground	
8	Lock gear detect in	27, 39	Chip select in	53-56	Tm (test mode) setting	
9	Disc sensor in	29, 30	Crystal	57	Reserved	
10,11	Ground	31	Reset in	59	Subcode sync S	
12	Frame sync lock det in	32	Plunger control in		sgnl in	
13	SENSE in	33, 34	Loading motor ctl out	60	Signal request out	
1-1	Focus OK in	35	Test mode control out	01, 02	Sied motor control out	
15	Temp detection out	36	Error ctl (tm) out	63	Subcode Q signal in	80
16	Digital mute ctl out	37	Reserved	64	Clock (subcode Q) out	990
17	Emphasis control out	38, 58	VDD		2.22 (22200d0 Q) 0dt	74
	•	•				S

Chassis

Chassis

Limit switch

Lock gear A

Lock gear B

Lock gear B

Fig. 1

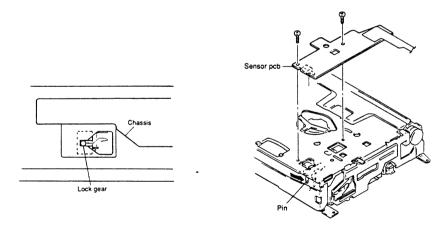


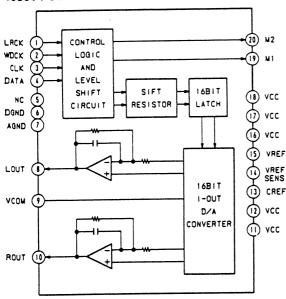
Fig. 2

Fig. 3

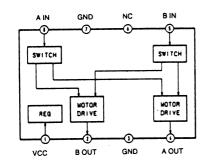
CS 74 0

5.2 IC BLOCKDIAGRAMS

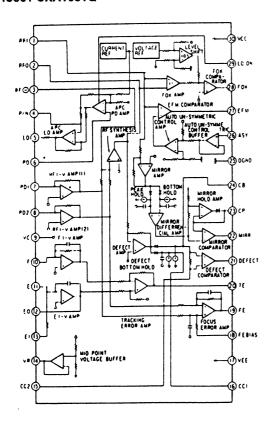
IC301 PCM66P



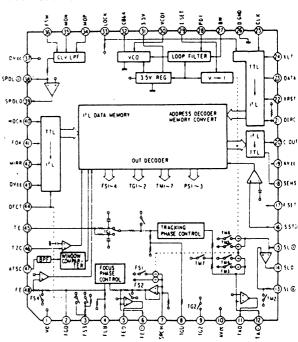
IC403 BA6208F

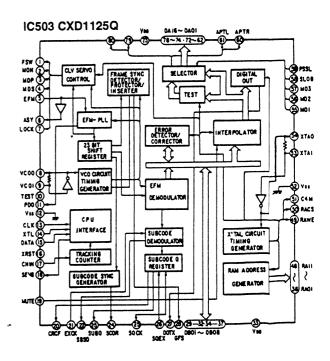


IC501 CXA1081Q

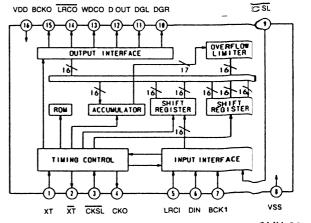


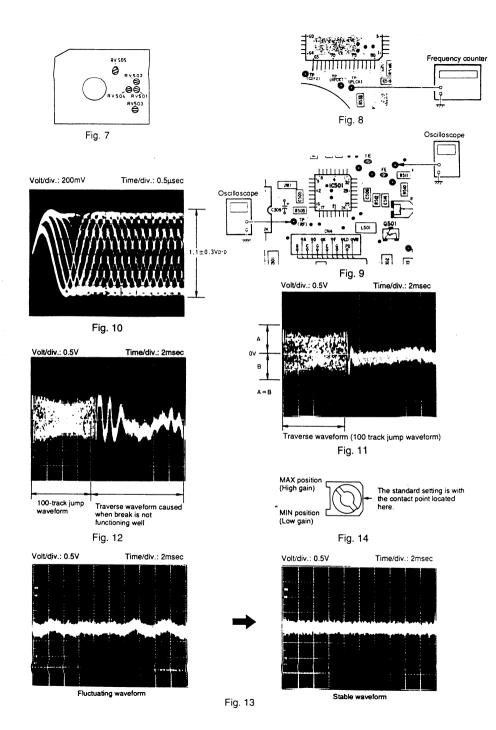
IC502 CXA1082BQ





IC505CXD1316D





6.1 MECHANICAL ADJUSTMENTS

Turntable height

- Loosen the fixing screws (2x).
- Adjust the height as shown in Fig. 4.

Lock gears A and B

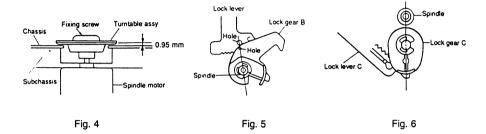
As adjustment of lock gears A and B is the same, only the one of lock gear B is described

Rotate the gear near the sled motor manually to move the Optical block towards the outside

- until the lock gear is disengaged from the notch of the chassis.
- Adjust the lock gear as shown in Fig. 5.

Lock gear C

- Rotate the gear near the sled motor manually to move the Optical block towards the outside until the lock gear is disengaged from the notch of the chassis.
- Adjust the lock gear as shown in Fig. 6.



6.2 ELECTRICAL ADJUSTMENTS

PLL free-run frequency

- Open solder bridge "EFM" (copper track 8-IC501).
- Connect frequency counter to test point "PLCK" (Fig. 8).
- Adjust RV505 to 4.3118 4.3318MHz.

Focus offset

- Connect oscilloscope to test point "RF" (Fig. 9).
- Load a disc and set mode to PLAY.
- Adjust RV502 to max. height and good shape of wave form (Fig. 10). Mark "O" to be clearly distinguished at the centre).

Tracking offset

- Connect oscilloscope to test point "TE"
- Load a disc, set mode to PLAY and press a SEARCH button.
- Adjust RV501 to max. symmetry of traverse wave form (Fig. 11).
 - Note: Traverse wave form: tracking error wave form observed when track is traversed.

Tracking gain

This adjustment is only necessary after replacing the Optical block or RV503.

In that case first adjust the focus and tracking offset (see above). The gain is too low: When music is selected by pressing a SEARCH button, the tracking jump wave form is not focused completely and the music selection is delayed (break function does not work well). See Fig. 12. The gain is too high: Noise, due to scratches and dust, is heard and the operation becomes unstable. If this is so, proceed as follows: Connect oscilloscope to test point "TE" (Fig. 9). Load a disc and set mode to PLAY.

Adjust RV503 to a stable wave form (Fig. 13)

Focus gain

This adjustment is only necessary after replacing the Optical block or RV504. The gain is too low: Focus does not function and no music is selected. The gain is too high: Noise, caused by scratches and dust, is heard and the operation becomes unstable. If this is so, proceed as follows:

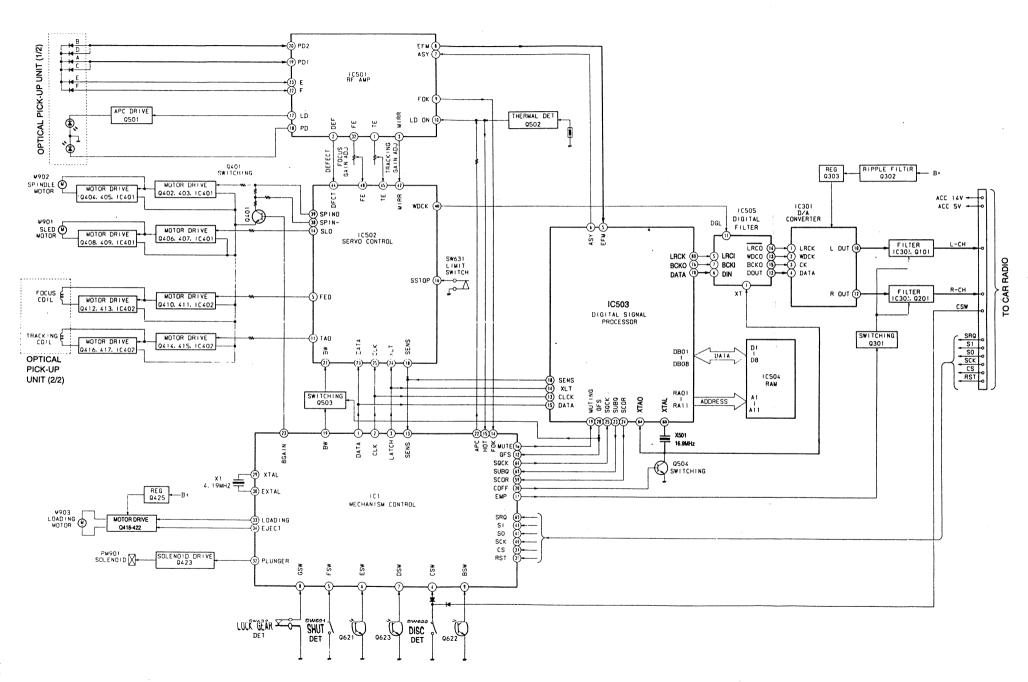
- Set RV504 to the standard position (Fig. 14).
 - If operation noise (white noise type), caused by the double-axis device (lens section of the Optical block) is abnormally loud, set RV504 slightly counter-clockwise.

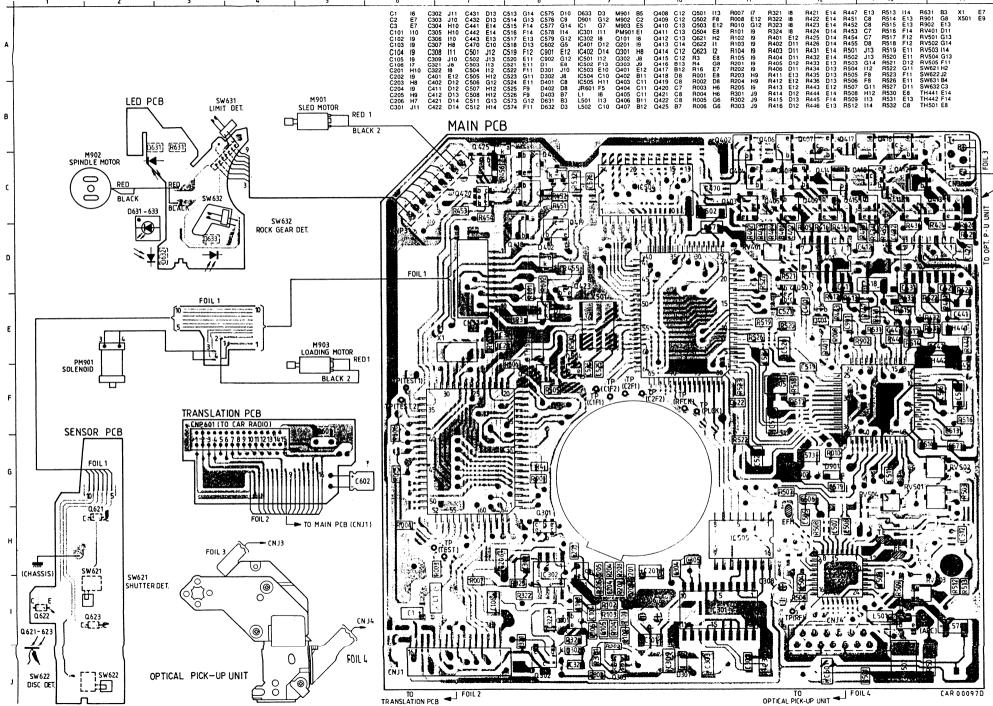
74

PCS 74 070

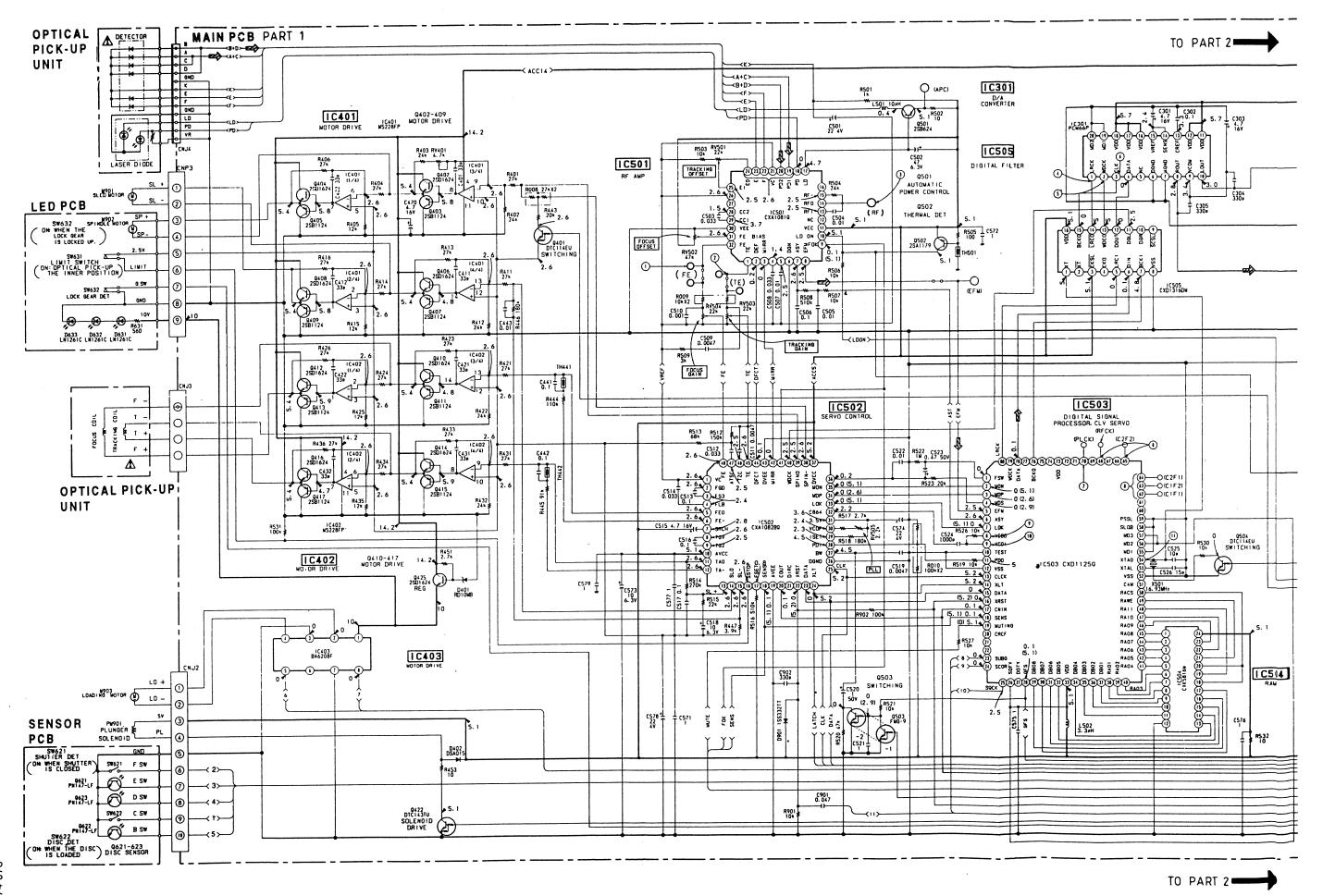
CMX-200

7. BLOCKDIAGRAM

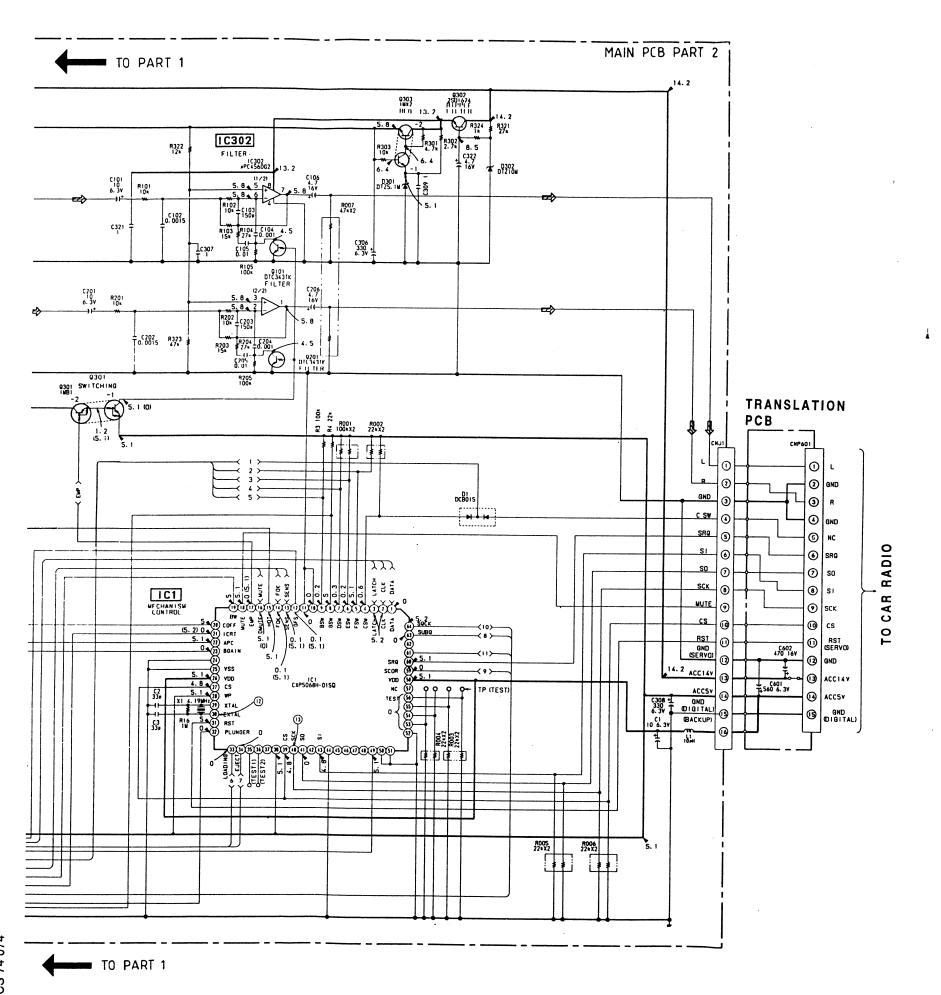




9. CIRCUIT DIAGRAM I



10. CIRCUIT DIAGRAM II



11. MEASURING CONDITIONS

- Supply voltage: 14.4V DC

 Voltages and wave forms are DC with respect to ground. No signal applied.

...V : STOP (...V) : PLAY.

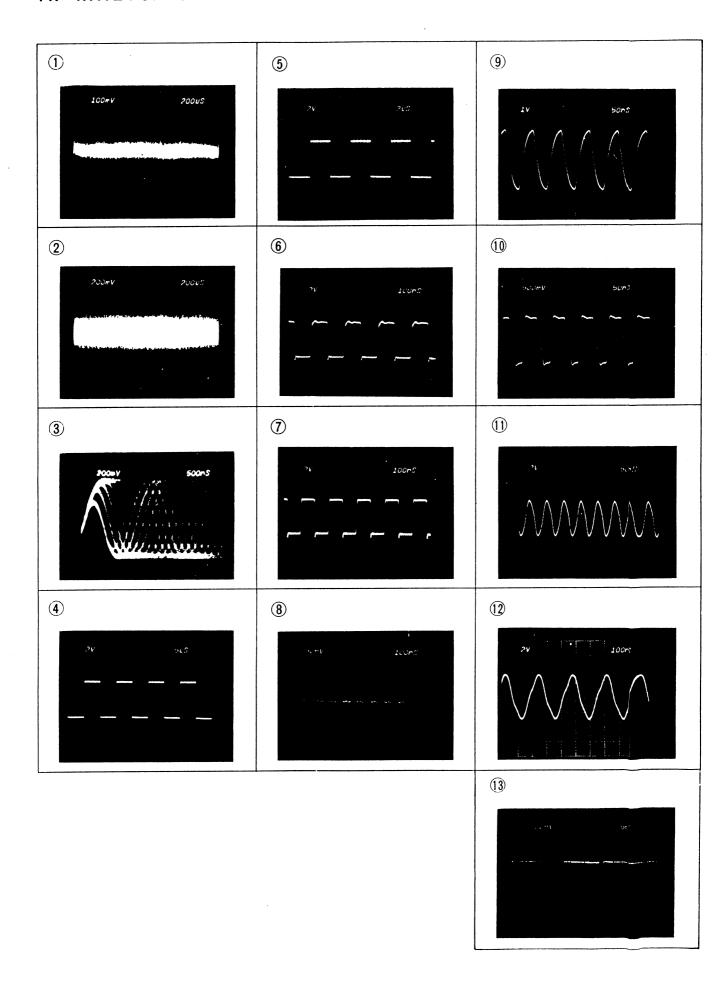
- Voltages are measured with an EVM, input impedance $10M\Omega$.

Circled numbers refer to wave forms, measured with an oscilloscope.

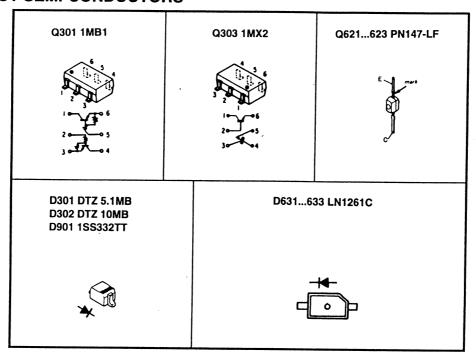
Position of switches:

Item	Function	Position
SW621	Shutter det.	Off
SW622	Disc det.	Off
SW631	Limit	On
SW632	Lock gear	On

11. WAVE FORMS



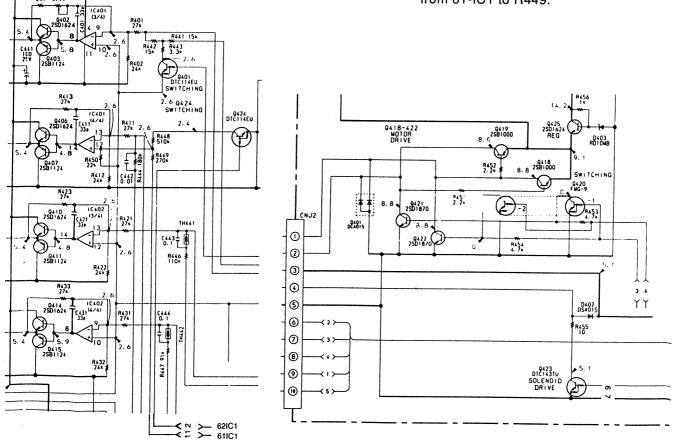
12. LEAD LAYOUT SEMI-CONDUCTORS



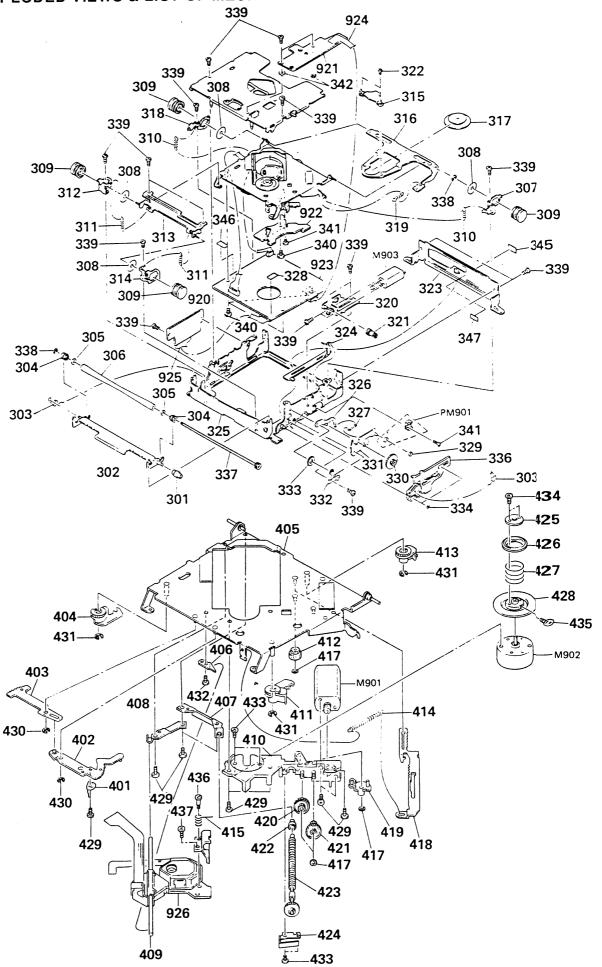
13. MODIFICATIONS IN PRODUCTION

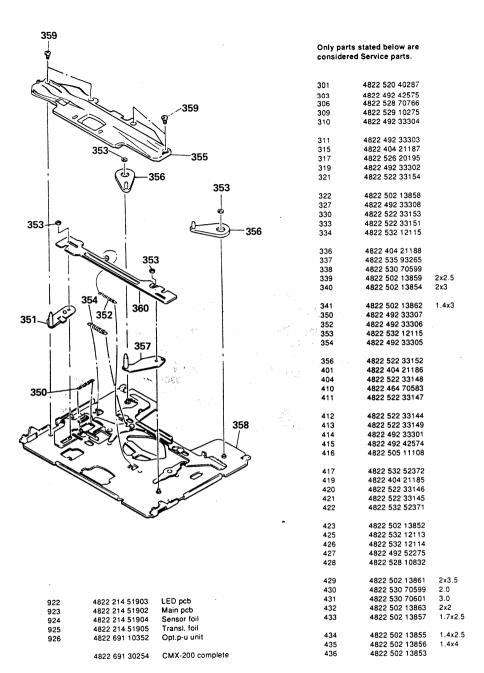
During production the loading motor drive circuit has been redesigned into an IC-version. Circuit diagram I (page 7) shows the changed version. The original circuit is shown below. The layout of the main pcb shows the original version. The list of electrical parts shows the original parts.

Q424, R448, R449 have been added. Also, some components have been renumbered. Refer to modified cicuit diagram below. This modification is shown neither in the layout of the main pcb, nor in the list of electrical parts. C901, 902, D902, R901, 902 have been added to 22-IC502. Original circuit: 22-IC502 connected to 16-IC503/21-IC1, connection 11 from 61-IC1 to R449.



14. EXPLODED VIEWS & LIST OF MECHANICAL PARTS





15. List of electrical parts

⊣⊢				⊣⊢			
C1	4822 124 23941	10uF 20% 6.3V		C518	4822 124 23941	10 F 200/ C 21/	
C2	4822 126 11892	33pF 5% 50V		C518	4822 124 23941	10µF 20% 6.3V 4.7nF 10% 50V	
C3	4822 126 11892	33pF 5% 50V		C520	4822 124 23944	1µF 20% 50V	
C101	4822 124 23941	10μF 20% 6.3V		C521	4822 126 11903	1μF % 16V	
C102	4822 126 11896	1.5nF 10% 50V		C522	4822 126 11898	10nF 10% 25V	
						10.11 1070 201	
C103	4822 126 11893	150pF 5% 50V		C523	4822 124 23943	0.47uF 20% 50V	
C104	4822 126 11895	1nF 10%50V		C524	4822 126 11895	1nF 10% 50V	
C105	4822 126 11898	10nF 10% 25V		C525	4822 126 11891	4pF 25% 50V	
C106	4822 124 23942	4.7μF 20% 16V		C526	4822 126 11891	4pF 25% 50V	
C201	4822 124 23941	10μF 20% 6.3V		C527	4822 126 11892	33pF 5% 50V	
0000	1000 100 1100						
C202 C203	4822 126 11896	1.5nF 10% 50V		C550	4822 126 11903	1μF % 16V	
C203	4822 126 11893	150pF 5% 50V		C571	4822 126 11903	1μF % 16V	
C204	4822 126 11895 4822 126 11898	1nF 10% 50V 10nF 10% 25V		C572	4822 126 11903	1µF % 16V	
C206	4822 124 23942	4.7µF 20% 16V		C573 C574	4822 124 23941	10µF 20% 6.3V	
OLUU	4022 124 23342	4.7µ1 20.6 10V		C5/4	4822 124 23939	22μF 20% 4V	
C301	4822 124 11247	4.7uF 10% 16V		C575	4822 126 11903	1μF % 16V	
C302	4822 126 11902	100nF 10% 25V		C576	4822 126 11903	1uF % 16V	
C303	4822 124 11247	4.7µF 10% 16V		C577	4822 126 11903	1μF % 16V	
C304	4822 126 11894	330pF 10% 50V		C578	4822 124 23939	22µF 20% 4V	
C305	4822 126 11894	330pF 10% 50V		C579	4822 126 11903	1µF % 16V	
				C580	4822 126 11895	1nF 10% 50V	
C306	4822 124 23945	330µF 20% 6.3V					
C307	4822 126 11903	1μF % 16V		-			
C308	4822 124 23945	330μF 20% 6.3V					
C309	4822 126 11903	1μF % 16V		JR601	4822 116 83416	Jumper 0E	10411
C321	4822 126 11903	1μF % 16V		JR902	4822 116 83451	Jumper 0E	
C322	4922 124 22042	4.7E 200/ 161/		R3	4822 116 83432	100k 5% 1/16W	14.42
C401	4822 124 23942 4822 126 11892	4.7μF 20% 16V 33pF 5% 50V		R4	4822 116 83429	22k 5% 1/16W	
C402	4822 126 11892	33pF 5% 50V		R16	4822 116 83435	1M 5% 1/16W	1740
C411	4822 126 11892	33pF 5% 50V		R001	4000 444 00054	4001 NETHODIC	
C412	4822 126 11892	33pF 5% 50V		R002	4822 111 92054 4822 111 92051	100k NETWORK	16 77
	* 1,			R002	4822 111 92051	22k NETWORK	
C421	4822 126 11892	33pF 5% 50V		R004	4822 111 92051	22k NETWORK 22k NETWORK	1,14
C422	4822 126 11892	33pF 5% 50V		R005	4822 111 92051	22k NETWORK	
C431	4822 126 11892	33pF 5% 50V				22	-
C432	4822 126 11892	33pF 5% 50V		R006	4822 111 92051	22k NETWORK	
C441	4822 126 11902	100nF 10% 25V		R007	4822 111 92053	47k NETWORK	
0440				R008	4822 111 92052	27k NETWORK	
C442 C443	4822 126 11902	100nF 10% 25V		R009	4822 111 92049	10k NETWORK	
C470	4822 126 11898	10nF 10% 25V		R010	4822 111 92054	100k NETWORK	
C501	4822 124 23942 4822 124 23939	4.7μF 20% 16V 22μF 20% 4V		D	4000 445 55 55		
C502	4822 124 11246	47μF 20% 6.3V	-	R101	4822 116 83439	10k 1% 1/16W	
	.322 .27 .1240	, 2070 0.04		R102 R103	4822 116 83439	10k 1% 1/16W	
C503	4822 126 11901	33nF 10% 25V		R103	4822 116 83442 4822 116 83446	15k 1% 1/16W	
C504	4822 126 11899	2.7nF 10% 50V		R105	4822 116 83446	27k 1% 1/16W 100k 5% 1/16W	
C505	4822 126 11898	10nF 10% 25V		.,,,,,,	.322 110 03432	100K 3/0 1/10VV	
C506	4822 126 11902	100nF 10% 25V		R201	4822 116 83419	10k 1% 1/16W	
C507	4822 126 11898	10nF 10% 25V		R202	4822 116 83419	10k 1% 1/16W	
				R203	4822 116 83442	15k 1% 1/16W	
C508	4822 126 11901	33nF 10% 25V		R204	4822 116 83446	27k 1% 1/16W	
C509	4822 126 11895	1nF 10% 50V		R205	4822 116 83432	100k 5% 1/16W	
C510 C511	4822 126 11895	1nF 10% 50V					
C511	4822 126 11897 4822 126 11901	4.7nF 10% 50V		R301	4822 116 83426	4.7k 5% 1/16W	
0312	+022 120 11901	33nF 10% 25V		R302	4822 116 83424	2.7k 5% 1/16W	
C513	4822 126 11902	100nF 10% 25V		R303	4822 116 83439	10k 1% 1/16W	
C514	4822 126 11901	33nF 10% 25V		R321	4822 116 83446	27k 1% 1/16W	
C515	4822 124 11247	4.7µF 10% 16V		R322	4822 116 83441	12k 1% 1/16W	
C516	4822 126 11902	100nF 10% 25V		R323	4822 116 83431	47k 5% 1/16W	
C517	4822 126 11902	100nF 10% 25V		R324	4822 116 83422	47k 5% 1/16W 1k 5% 1/16W	(
				R401	4822 116 83446	27k 1% 1/16W	
					0 00 00 00	=	

\rightarrow			-0-		
R402	4822 116 83443	24k 1% 1/16W	R526	4822 116 83439	10k 1% 1/16W
R403	4822 116 83443	24k 1% 1/16W	R527	4822 116 83439	10k 1% 1/16W
R404	4822 116 83446	27k 1% 1/16W	R530	4822 116 83439	10k 1% 1/16W
R405	4822 116 83441	12k 1% 1/16W	R531	4822 116 83432	100k 5% 1/16W
R406	4822 116 83446	27k 1% 1/16W	R532	4822 116 83418	10E 5% 1/8W
			ľ		
R411	4822 116 83446	27k 1% 1/16W	R550	4822 116 83435	1M 5% 1/16W
R412	4822 116 83443	24k 1% 1/16W	R631	4822 116 83415	560E 5% 1/8W
R413	4822 116 83446	27k 1% 1/16W	R997	4822 116 83447	27k 5% 1/16W
R414	4822 116 83446	27k 1% 1/16W	R998	4822 116 83452	30k 5% 1/16W
R415	4822 116 83441	12k 1% 1/16W	R999	4822 116 83449	330k 5% 1/16W
R416	4822 116 83446	27k 1% 1/16W	RV401	4822 100 30168	4.7k Adj.potm.
R421	4822 116 83446	27k 1% 1/16W	RV501	4822 100 30165	47k Adj.potm.
R422	4822 116 83443	24k 1% 1/16W	RV502	4822 100 30166	47k Adj.potm.
R423	4822 116 83446	27k 1% 1/16W	RV503	4822 100 30169	2k Adj.potm.
R424	4822 116 83446	27k 1% 1/16W	RV504	4822 100 30169	22k Adj.potm.
11727	4022 110 00440	27 1 70 1/1044	111004	4022 100 30103	ZZR Adj. politi.
R425	4822 116 83441	12k 1% 1/16W	RV505	4822 100 30167	2.2k Adi notm
					2.2k Adj.potm.
R426	4822 116 83446	27k 1% 1/16W	TH441	4822 111 92055	Thermistor
R431	4822 116 83446	27k 1% 1/16W	TH442	4822 111 92055	Thermistor
R432	4822 116 83443	24k 1% 1/16W	TH501	4822 111 92055	Thermistor
R433	4822 116 83446	27k 1% 1/16W			
R434	4822 116 83446	27k 1% 1/16W	1		
R435	4822 116 83441	12k 1% 1/16W	L1	4822 157 63598	10µH
R436	4822 116 83446	27k 1% 1/16W	L501	4822 157 63598	10µH
R443	4822 116 83438	20k 5% 1/16W	L502	4822 157 63597	3.3µH
R444	4822 116 83445	110k 5% 1/16W			
					
R445	4822 116 83444	91k 5% 1/16W	→ +		
R446	4822 116 83433	180k 5% 1/16W	D1	4822 130 82816	DCB015
R447	4822 116 83425	3.9k 5% 1/16W	1		1
R451	4822 116 83423	2.2k 5% 1/16W	D301	4822 130 82817	DTZ5.1B
R452			D302	4822 130 82818	DTZ10B
H452	4822 116 83423	2.2k 5% 1/16W	D401	4822 130 82815	DCA015
D450	4000 440 00400	4.70.50/ 4/4004/	D402	4822 130 82814	DSA015
R453	4822 116 83426	4.7k 5% 1/16W	1		
R454	4822 116 83426	4.7k 5% 1/16W	D403	4822 130 82813	RD10M
R455	4822 116 83418	10E 5% 1/8W	D631	4822 130 82811	LED LN1261C
R456	4822 116 83422	1k 5% 1/16W	D632	4822 130 82811	LED LN1261C
R502	4822 116 83418	10E 5% 1/8W	D633	4822 130 82811	LED LN1261C
			1		
R503	4822 116 83439	10k 1% 1/16W	-60		
R505	4822 116 83421	100E 5% 1/16W	-		ļ
R506	4822 116 83439	10k 1% 1/16W	Q101	4822 130 62893	DTC343TK
R507	4822 116 83439	10k 1% 1/16W	Q201	4822 130 62893	DTC343TK
R508	4822 116 83437	510k 5% 1/16W	Q301	4822 130 62895	
					IMB1
R509	4822 116 83436	3k 5% 1/16W	Q302	4822 130 62888	2SD1950
R510	4822 116 83427	5.6k 5% 1/16W	Q303	4822 130 62896	IMX2
			1		
R511	4822 116 83427	5.6K 5% 1/16W	Q401	4822 130 62892	DTC114EU
R512	4822 116 83434	220k 5% 1/16W	Q402	4822 130 62884	2SD1624-T
R513	4822 116 83428	18k 5% 1/16W	Q403	4822 130 62885	2SB1124-T
			Q404	4822 130 62884	2SD1624-T
R514	4822 116 83448	270k 5% 1/16W	Q405	4822 130 62885	2SB1124-T
R515	4822 116 83429	22k 5% 1/16W	1		
R516	4822 116 83437	510k 5% 1/16W	Q406	4822 130 62884	2SD1624-T
R517	4822 116 83424	2.7k 5% 1/16W	Q407	4822 130 62885	2SB1124-T
R518	4822 116 83433	180k 5% 1/16W	Q408	4822 130 62884	2SD1624-T
			Q+00	4822 130 62884 4822 130 62885	2501624-1 2501124-T
R519	4822 116 83439	10k 1% 1/16W	Q410	4822 130 62884	2SD1624-T
R520	4822 116 83431	47k 5% 1/16W	1		20010211
R521	4822 116 83439	10k 1% 1/16W		1000 155 555	00D4404 T
R522			Q411	4822 130 62885	2SB1124-T
	4822 116 83435	1M 5% 1/16W	Q412	4822 130 62884	2SD1624-T
R523	4822 116 83438	20k 5% 1/16W	Q413	4822 130 62885	2SB1124-T
			Q414	4822 130 62884	2SD1624-T
			1		

	-€3			T
	Q415	4822 130 62885	2SB1124-T	
	Q416	4822 130 62884	2SD1624-T	-
	Q417	4822 130 62885	2SB1124-T	
	Q418	4822 130 62889		
		4822 130 62889		-
				-
	0420	4822 130 62894 4822 130 63617 4822 130 63617 4822 130 61908 4822 130 62884	ENC 0	1
	0421	4022 130 02094	F 11G-9	-
	0421	4022 130 03017	2501870	1
	0422	4022 130 03017	2501870	
	0423	4822 130 61908	D1C1431U	
	Q425	4822 130 62884	2SD1624-T	
	Q501	4822 130 62887	2\$3624	
	Q502	4822 130 62891	2SA1179	
	Q503	4822 130 62894		-
	Q504	4822 130 62892	DTC114EU	
	Q505	4822 130 61908	DTC143TU	
	Q621	4822 130 62882	PN147-FL	
	Q622	4822 130 62882 4822 130 62882	PN147-FL	
	Q623	4822 130 62882	PN147-FL	
				1
	101	4000 000 0055	OBVERNOUS AND T	
	IC1	4822 209 30566		1
	IC301	4822 209 30029	PCM66P D/A converter	1
	IC302	4822 209 30568	NJM4560M Dig. filter M5228FP Motor drive	ı
	IC401	4822 209 30567	M5228FP Motor drive	1
	IC402	4822 209 30567	M5228FP Fo/Tr servo	
	10504	4000 000 04070	0.44.44.4	1
	10501	4822 209 61379	CXA1081Q RF Amp.	1
		4822 209 61381	CXA1082BQ Servo ctl	1
		4822 209 30565		1
	10505	4822 209 32926	SM5807ES Dig. filter	
_	Miscella	ineous		\dashv
	CNJ1	4822 267 51124	16p brown	1
	CNJ1 CNJ2	4822 267 51123 4822 267 41019	10p brown	1
	CIVUS	4822 267 41019	5p white	1
	CNJ4	4822 267 51125 4822 267 51122	13p white	1
			9c white	
	CNP601	4822 265 41156	15p	1
	M901	4822 361 30375	SLED motor	
	M902	4822 361 30376	Turntable motor	
		4822 361 30374	Loading motor	
		4822 281 50166	Plunger motor	
	SW621	4822 276 13168	Shutter detector	
				1
	SW622	4822 276 13168	Disc detector	1
	SW631	4822 271 30762	Limit detector	1
		4822 271 30762	Rock gear detector	1
	X1	4822 242 81008	Ceram resonator 4.19MHz	
	X501	4822 242 81004	Crystal 16.93MHz	1
			•	
				1
				1

PCS 74 077

22DC982/62E - 22DC962/62E



Car Systems Service

Service Information

Corrections to the Service Manual 4822 725 24323

Pages 21 to 23 Electrical Partslist 4822 122 32916 2750 22nF 10% X7R 63V 2764 4822 122 32916 22nF 10% X7R 63V 3750 4822 051 20104 100K 5% 0,1W 3756 4822 051 20562 5K6 5% 0,1W 3757 4822 051 20393 39K 5% 0,1W 3758 4822 051 20393 39K 5% 0.1W 3762 4822 116 52186 22Ω 5% 0,5W

> 7750 4822 209 31373 IC L4949

Page 12-12a Radio PCB Part 2 In the upper side of the schematic diagram, do not take in acount the part "radio PCB part 3" (also the corresponding parts in the PCB layout, stated with a ""), not used in /62E versions.

These parts are only used in 982/62B and 962/62B, service manual 4822 725 24322.

1993-07-13



